

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqiu
 Kalos, Michael D.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel X.
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William T.
 Henderson, Robert A.
 Hural, John
 McNeill, Patricia D.
 Houghton, Raymond L.
 Vinals de Bassols, Carlota
 Foy, Teresa
 Fanger, Gary R.

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C26

<140> US

<141> 2001-06-29

<160> 990

<170> FastSEQ for Windows Version 3.0

<210> 1

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<213> Homo sapien

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<223> n = A,T,C or G

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FASTSEQ FOR WINDOWS

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<213> Homo sapien
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<211> 773
<212> DNA
<213> Homo sapien
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<211> 828
<212> DNA
<213> Homo sapien
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<400> 4

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<400> 5

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tagggccataa	tcataatacag	tataaggaaa	aggtggtagt	gttgagtaag	cagttatttag	360
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cattcagttt	tcaaagtagg	agacaggttc	tacagtatca	ttttacagtt	tccaacacat	480
tgaaaacaag	tagaaaatga	tgagttgatt	tttattaatg	cattacatcc	tcaagagtta	540
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ttatttttaa	ttagtgtctaa	atggattaag	tgaagacaac	aatgggtcccc	taatgtgatt	660
gatattggtc	atttttacca	gcttctaaat	ctnaactttc	aggcttttga	actggaacat	720
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<210> 6
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 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(818)
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tgtaaagtga	aatattagtt	ggcggatgaa	gcagatagtg	aggaaagttg	agccaataat	180
gacgtgaagt	ccgtggaagc	ctgtggctac	aaaaaatggt	gagccgtaga	tgccgtcggg	240
aatggtgaag	ggagactcga	agtactctga	ggcttgtagg	agggtaaaat	agagaccag	300
taaaattgta	ataagcagtg	cttgaattat	ttggtttcgg	ttgttttcta	ttagactatg	360
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aggggctagg	ctggagtggg	aaaaggctca	gaaaaatcct	gcgaagaaaa	aaacttctga	540
ggtaataaat	aggattatcc	cgtatcgaag	gcctttttgg	acaggtggtg	tgtggtggcc	600
ttggtatgtg	ctttctcgtg	ttacatcgcg	ccatcattgg	tatatggtta	gtgtgttggg	660
ttantangg	ctantatgaa	gaacttttgg	antggaatta	aatcaatngc	ttggccggaa	720
gtcattanga	nggctnaaaa	ggccctgtta	ngggtctggg	ctnggtttta	cccnaccat	780
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<210> 7
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
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 <223> n = A,T,C or G

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ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gttttagacgt	cgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggg	gttctcctag	gttcaatacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
aggatncctt	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540

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[illegible]

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<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G
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<210> 9
<211> 801
<212> DNA
<213> Homo sapien
```

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<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G
```

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taangatgac	actcccaaag	gtggtcctga	cagtggccca	gatggacatg	gggtcacct	120
caaggacaag	gccaccaggt	gcggggggcgc	aagcccacat	gacacctact	ctatgagcaa	180
aatccctctg	gggggcttct	ccttgaagtc	cgccanacag	gctcagttct	tggaaccang	240
caggtcatgg	gggtgtngnc	caactggggg	ccncaacgca	aaanggcnc	gggacctcngn	300
cacccatccc	angacgcggc	tacactnctg	gacctccnc	tccaccactt	tcatgcgctg	360
ttcntaccgc	cgatntgtc	ccanctgttt	cngtgccnac	tccancttct	nggacgtgcg	420
ctacatacgc	ccggantcnc	ntcccgcctt	tgtccctatc	cacgtncan	caacaaattt	480
cncntantg	caccnatccc	cacnttttnc	agntttccnc	nncngccttc	cttntaaaaag	540
ggttgancgc	cggaaaatnc	cccaaaaggg	gggggcngg	taccgaactn	ccccctnata	600
qctaantcc	ccatnaccnn	gnctcnatqg	ancntccnt	tttaannacn	tctcnaactt	660

Figure 6. The effect of the number of iterations on the accuracy of the proposed algorithm. The figure shows the accuracy of the proposed algorithm as a function of the number of iterations for different values of the parameters α , β , and γ . The x-axis represents the number of iterations (from 0 to 100), and the y-axis represents the accuracy (from 0.8 to 1.0). The legend indicates three cases: $\alpha = 0.5, \beta = 0.5, \gamma = 0.5$ (blue line), $\alpha = 0.5, \beta = 0.5, \gamma = 0.7$ (orange line), and $\alpha = 0.5, \beta = 0.5, \gamma = 0.9$ (green line).

```
<220>  
<221> misc_feature  
<222> (1)...(789)  
<223> n = A,T,C or G
```

```
<210> 11
<211> 772
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G
```

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tttgttaaat	aaataagtta	aatattttaa	tgctgtgtc	tctgtgatgg	caacagaagg	120
accaacaggc	cacatcctga	taaaaggtaa	gaggggggtg	gatcagcaaa	aagacagtgc	180
tgtgggctga	ggggacctgg	ttcttgtgtg	ttgcccctca	ggactcttcc	cctacaaata	240
actttcatat	gttcaaatcc	catggaggag	tgtttcatcc	tagaaactcc	catgcaagag	300
ctacattaaa	cgaagctgca	ggttaagggg	cttanagatg	ggaaaccagg	tgactgagtt	360
tattcagctc	ccaaaaaccc	ttctctaggt	gtgtctcaac	taggaggcta	gctgttaacc	420
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aactggggaa	aaaagaaaa	gacgccccan	cccccagctg	tgcantcagc	cacctcaaca	600
gcacaggggt	gcagacaaaa	aaccacttta	ctttggcaca	aacaaaaaact	ngggggggca	660
accccggcac	cccnangggg	gttaacagga	ancnggnaa	cntggaaccc	aattnaggca	720
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<400> 12

[illegible]

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<221> misc_feature  
<222> (1)...(729)  
<223> n = A,T,C or G
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<400> 13

<210>	14
<211>	816
<212>	DNA

$\langle 220 \rangle$ $\langle 222 \rangle \quad (1) \dots (816)$
$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

<400> 14

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ggcaggtcca	cgcagtccc	tttgtactg	gggaaatgga	tgcgtggag	ctcgtcaaa	180
ccactcgtgt	attttcaca	ggcagcctcg	tccgacgcgt	cggggcagtt	gggggtgtct	240
tcacactcca	ggaaactgtc	natgcacagc	ccattgctgc	agcggaaactg	ggtgggctga	300
cangtgccca	agcacactgg	atggcgctt	tccatgnnan	ggggcctng	ggaaagtccc	360
tganccccan	anctgcctct	caaaagcccc	accttgacac	ccccgacagc	ctagaatgga	420
atcttcttcc	cgaaggttag	ttnttcttgt	tgcccaancc	anccccntaa	acaaactctt	480
gcanatctgc	tccngggggg	tctantacc	ancgtgggaa	aagaacccca	ggcngcgaac	540
caancttggt	tggatncgaa	gcnatatct	nctnttctgc	ttggtggaca	gcaccantna	600
ctgtnnanct	ttagnccntg	gtcctcntgg	gttgnncttg	aacctaaten	ccnntcaact	660
gggacaaggt	aanngccent	cctttnaatt	ccnancntn	ccccctggtt	tgggggttttn	720
cncnctccta	cccagaaaan	nccgtgttcc	cccccaacta	ggggccnaaa	ccnnttnttc	780
cacaaccctn	ccccccccc	gggttcngnt	ggttng			816

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (783)$
$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

<400> 15

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gcttggggcaa	gaagaacaac	tacctcggg	aagaagatg	cattctancc	tgtcnggggt	420
tgcaagggtg	gcctttgana	ngcanctctg	gggtcangc	gactttcccc	cagggccctt	480
ccatggaaaag	gcgccatcca	ntgttctctg	gcacctgtca	gcccacccag	ttccgctgca	540
ncaatggctg	ctgcacnac	antttcctng	aattgtgaca	acacccccca	ntgcccccaa	600
ccctcccaac	aaagcttccc	tgtnaaaaa	tacnccantt	ggcttttnac	aaacnccccg	660
cncctccntt	ttccccnntn	aacaaagggc	nctngcnttt	gaactgcccn	aaccnnggaa	720
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ccc						783

<210> 16

<211> 801

<212> DNA

<213> Homo sapien

<220>
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 <223> n = A,T,C or G

<400> 16

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tggtccgaan	atcttcagaa	aagggatgcc	ccatcgattg	aacacccana	tgccactgc	600
cnacagggct	gcnccnncn	gaaagaatga	gccattgaag	aaggatcntc	ntgggtcttaa	660
tgaactgaaa	ccntgcatgg	tggtccctgt	tcagggtctc	tggcagtga	ttctganaaa	720
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 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
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 <223> n = A,T,C or G

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agccaccatg	cagtgtctca	gtttcattaa	gaccatgatg	atcctcttca	atttgctcat	180
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tgctgaagtt	gcagctgctg	tggtcgccct	ggtgtacacc	acaatggctg	aaccattcct	480
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gaattttgaa	agantcncct	tacttccaaa	aaaaaanant	tgcttttnc	ccntttctgt	660
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 <211> 802
 <212> DNA
 <213> Homo sapien

<220>
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 <222> (1)...(802)

CCDS10464.1: CDS

[illegible]

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aagcaaacac	tgtgagcagc	cggaaagtag	aggcaaagtc	actctcagcc	agctctctaa	300
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aancttcgtc	nggccccatgg	aattcacenc	accggaactn	gtangatcca	ctnnttctat	660
aaccggncgc	caccgcnntt	ggaactccac	tctntntnec	ttactttgag	ggttaaggtc	720
accctttnng	ttaccttggg	ccaaacntn	cnttgtgtcg	anatngtnaa	tcnggncna	780
tnccanccnc	atangaagcc	ng				802

<213> Homo sapien

<223> n = A, T, C or G

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gagcccaccg	tcacngngng	gngtctttat	nggagggggc	ggagccacat	cnetggacnt	120
cntgaccca	actcccncc	ncncantgca	gtgatgagt	cagaactgaa	ggtnacgtgg	180
caggaaccaa	gancaaannc	tgctccnntc	caagtgcgcn	nagggggcgg	ggctggccac	240
gcncatcent	cnagtctctg	aaagcccnnc	cctgtctact	tgtttggaga	acngcnngga	300
catgcccagn	gttanataac	nggcngagag	tnantttgcc	tctcccttcc	ggctgcgcac	360
cgngtntgct	tagnggacat	aacctgacta	cttaactgaa	cccnngaate	ttccnccccct	420
ccactaagct	cagaacaaaa	aacttcgaca	ccactcantt	gtcacctgnc	tgctcaagta	480
aagtgtaccc	catncccaat	gntngctnga	ngctctgncc	tgcnttangt	tcggctcctgg	540
gaagacctat	caattnaagc	tatgtttctg	actgcctctt	gtccctgna	acaancnacc	600
cnnncntcca	aggggggggnc	ggcccccaat	ccccccaacc	ntnaattnan	tttancccn	660
ccccnggcc	cggccttita	cnancntcnn	nnacnnggna	aaaccnnggc	tttncccaac	720
nnaatccncc	t					731

<213> Homo sapien

<223> n = A, T, C or G

<400> 20

[illegible]

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<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G
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<210> 22
<211> 849
<212> DNA
<213> Homo sapien
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<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G
```

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atcctggnna	cggaaanggtc	accggnngat	nnctgctagg	tgncncctcc	cannncttn	180
caataactcn	ngqccctgcc	caccaccttc	gqcgqcccn	ngnccgqgcc	cgggtcattn	240

gnnttaaccn	cactnngcna	ncgggtttccn	nccccnnncng	accnnggcga	tccgggggtnc	300
tctgtcttcc	cctgnagncn	anaaantggg	ccnccggnccc	ctttaccct	nnacaagcca	360
cngccntcta	ncnccngccc	cccctccant	nngggggact	gccnanngt	ccgttntctng	420
nnaccccnnn	gggtncctcg	gttgctcgant	cnaccgnang	ccanggatc	cnaaggaagg	480
tgcgttnttg	gcccttacc	ttcgtctnccg	nncacccttc	ccgacnanga	nccgtctccg	540
cncnccgng	cctcncctcg	caacaccgc	ntctntcngt	ncggnnnccc	ccccaccgc	600
neccctcnc	ngnccnancn	ctccnccncc	gtctcannca	ccaccccgcc	ccgccaggcc	660
ntcanccacn	ggnggacnng	nagcncntc	gcnccgcgcn	gcgnccct	cgcncngaa	720
ctnctcngg	ccantnccgc	tcaancnna	cnaaacgcg	ctgcgcggcc	cgnagcgncc	780
nectcncga	gtcctcccg	cttcnacc	angnntccn	cgaggacacn	nnaccccgcc	840
nncangcgg						849

<210> 23
 <211> 872
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(872)
 <223> n = A,T,C or G

<400> 23						
gcgcaaaacta	tacttcgctc	gnactcgtgc	gcctcgtcnc	tcttttcctc	cgcaaccatg	60
tctgacnanc	ccgattnggc	ngatatchan	aagntcganc	agtccaaact	gantaacaca	120
cacacnncan	aganaaatcc	nctgccttcc	anagtanacn	attgaacnng	agaaccangc	180
nggcgaatcg	taatnaggcg	tgcgcgcgcca	atntgtcncc	gtttattntn	ccagcctcnc	240
ctnccnacc	tacntcttcn	nagctgtcnn	accctcngtn	cgnaccccc	naggtcggga	300
tccgggtttnn	nntgaccgng	cnnccctctc	ccccctccat	nacganccnc	ccgcaccacc	360
nanngcncgc	nccccgnnct	cttcgcncnc	ctgtcctntn	cccctgtngc	ctggcncngn	420
accgcattga	ccctcgccnn	ctncnngaaa	ncgnanacgt	ccgggttggn	annancgctg	480
tgggnnngcg	tctgcncgc	gttccttccn	nenncttcca	ccatcttct	tacnggggtct	540
ccnccgctc	tcnnncaenc	cctgggacgc	tntcctntgc	cccccttnac	tccccccctt	600
cgnccgtgnc	cgncccccacc	ntcatttnca	nacgntcttc	acaannncc	ggntnnctcc	660
cnancngnch	gtcancnag	ggaagggngg	ggnnccnttg	nttgacgttg	ngngngangtc	720
cgaanantcc	tcnccntcan	cncctaccct	cgggcgnnct	ctcngttnc	aactancaa	780
ntctcccccg	ngngcnctc	tcagcctcnc	ccnccccnct	ctctgcantg	tncctctgctc	840
tnaccnntac	gantnttogn	cncctcttt	cc			872

<210> 24
 <211> 815
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(815)
 <223> n = A,T,C or G

<400> 24						
gcatgcaagc	ttgagtattc	tatagngtca	cctaaatanc	ttggcntaat	catgggtcnta	60
nctgncttcc	tgtgtcaaat	gtatacnaa	tanatatgaa	tctnatntga	caaganngta	120
tctnccatta	gtaacaantg	tnntgtccat	cctgtcngan	canattccca	tnnattncgn	180
cgcattcncn	gncantatn	taatngggaa	ntcnntnnn	ncaccnncat	ctatctntcc	240


```
<210> 25
<211> 775
<212> DNA
<213> Homo sapien
```

<400> 25

```
<210> 26
<211> 820
<212> DNA
<213> Homo sapien
```

<400> 26

anattantac	agtgaatct	tttcccagag	gtgtgtanag	ggaacggggc	ctagaggcat	60
cccanagata	ncttanca	acagtgttt	gaccaagagc	tgctgggcac	atttctgca	120
gaaaaggtgg	cggtcccat	cactctcct	ctcccatagc	catcccagag	gggtgagtag	180
ccatcangcc	ttcggtgga	gggagtcang	gaaacaacan	accacagagc	anacagacca	240
ntgatgacca	tgggcgggag	cgagcctctt	cctgnaccg	gggtggcana	nganagccta	300
netgaggggt	cacactataa	acgttaacga	ccnagntan	cacctgcttc	aagtcaccc	360
ttcctacctg	acnaccagn	accnnaact	cgngcctggg	gacagcncgt	ggancagcta	420

```
<210> 27
<211> 818
<212> DNA
<213> Homo sapien
```

<400> 27

```
<210> 28
<211> 731
<212> DNA
<213> Homo sapien
```

<400> 28

aggaagggcg	gagggatatt	gtangggatt	gagggatagg	agnataangg	gggagggtgtg	60
tcccaacatg	anggtgnngt	tctcttttga	angagggttg	ngtttttann	ccnggtgggt	120
gattnaaccc	cattgtatgg	agnnaaaggn	tttnagggat	ttttcggctc	ttatcagtat	180
ntanattcct	gtnaatcgga	aaatnatntt	tcnncnggaa	aatnttgctc	ccatccgnaa	240
attnctcccg	ggtagtgcatt	nttngggggg	cngccangtt	tcccaggctg	ctanaatcgt	300
actaaagntt	naagtgggan	tncaaataaa	aacctnnac	agagnatccn	taccgcactg	360
tnnnntnctt	tcgcccctng	actctgcng	agcccaatac	ccnngngnat	gtcncccgng	420
nnngcgnnc	tgaannnnnc	tcngggctnn	gancatcang	gggtttcgca	tcaaagcnn	480
cgtttcncat	naaggcactt	tngcctcacc	caaccnctng	ccctcnncca	tttngccgtc	540

```

nggttcncct acgctnnntng cncctnnntn ganattttnc ccgcctnngg naancctcct      600
gnaatgggta gggnccttntc ttttnaccnn gnggtntact aatcnnctnc acgcntnctt      660
tctcnacccc cccctttttt caatcccanc ggcnaatggg gtctccccnn cgangggggg      720
nnnccanc c                                                    731

```

```

<210> 29
<211> 822
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

```

```

<400> 29
actagtcacag tgtgggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat      60
cgctcanacc tcacanccctc ccnaccngc ctataangaa nannaataga nctgtncnnt      120
atntntacnc tcatannccct cnnnaccac tccctcttaa ccctactgt gcctatngcn      180
tnnctantct ntgcgcctn cnanccacn gtgggcnac cncnngnatt ctcnatctcc      240
tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn      300
tccatnantt annntaacta ccaactgacnt ngactttcnc atnancctcct aatttgaatc      360
tactctgact cccaengcct annnattagc anctccccc nacnatntct caaccaaatc      420
ntcaacaacc tatctanctg ttcnccaacc nttncctcgg atcccccnnac aacccccctc      480
ccaaataccc nccacctgac ncctaaccn caccatcccg gcaagccnna ggncatttan      540
ccaactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana      600
aatnctcctn naatttactn ncantnccat caanccacn tgaaacnnaa cccctgtttt      660
tanatccctt ctttcgaaaa ccnacccttt annncccaac ctttngggcc ccccnctnc      720
ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaggcna anannntccg      780
canatcctat cccttanttn ggggnccctt nccnngggcc cc                                                    822

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```

<210> 30
<211> 787
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(787)
<223> n = A,T,C or G

```

```

<400> 30
cggcgcctg ctctggcaca tgctcctga atggcatcaa aagtgatgga ctgcccattg      60
ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctcccctt      120
gtctgcagga tttgatgtct gaagtcgttg agtgtggctt ggagctcctc atctacatna      180
gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccacg ctctccangg      240
acaccagggg ctccaggcag cccattatc ccagnangac atgggtgttc tccacgcgga      300
cccatggggc ctgnaaggcc agggctcctt ttgacaccat ctctcccgtc ctgcttgga      360
ggcgtggga tccactantt ctanaacggn cgccaccncg gtgggagctc cagcttttgt      420
tccnttaat gaaggttaat tgcncgcttg gcgtaatcat nggtcanaac tntttctgt      480
gtgaaattgt ttntccctc ncnattccnc ncnacatacn aaccgggaan cataaagtgt      540
taaagcctgg gggtnccctn nngaanaac tnaactcaat taattgcgtt ggctcatggc      600
ccgctttccn ttcnggaaaa ctgtcntccc ctgcnttntt gaatcggccca cccccnggg      660
aaaagcggtt tgcnttttng ggggntcctt cnccttcccc cctcnctaan cctnccgct      720

```

cggtcgttnc nggtngcggg gaanggggnat nnnctcccnc naagggggng agnnngntat 780
ccccaaa 787

<210> 31
<211> 799
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G

<400> 31

tttttttttt	ttttttttggc	gatgctactg	ttaaatgca	ggaggtggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggagggag	ggcagagcgc	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgagggt	gggggccacc	agtccagggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggt	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggacettc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	cccntcnaa	aagtaattca	ccccccccc	ccntctnttg	480
cctgggccct	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcncc	cetgaangcg	ccaagttgaa	aggccacgcc	gtncnccnctc	cccatagnan	600
ntttttncc	canctaagtc	ccccccnggc	aacnatccaa	tccccccccc	tgggggcccc	660
ageccanggc	ccccgncctc	ggnnncengn	cncgnantcc	ccaggtcttc	ccantcngnc	720
ccnnngcncc	cccgacgcga	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnnncnac	780
ctgccccccc	ccnnccgng					799

<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tttttncnag	ggcaggttta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tccggcggcg	gcggcggcgg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgt	tgatnttcct	ctgcagctgc	aggatgccnt	aaaacagggc	ctcggccntn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggnttta	cccnccnccg	ttggencact	ccccntggaa	accacttntc	360
gcggctccgg	catctggtct	taaaccttgc	aaacnctggg	gccctctttt	tggttantnt	420
ncnngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaancn	ccccaaaacc	480
ggncatgtc	ttnnccgggt	tgctgcnatn	tncatcacct	cccgggcncn	ncaggncaac	540
ccaaaagtgc	ttngggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcatc	600
ccccttggcc	cccaaatect	ccccccgntt	nctgggtttg	ggaaccacac	cctctnnctt	660
tggnnngcaa	gntggntccc	ccttcggggc	cccgggtggc	ccnnctctaa	ngaaaaacnc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tccctttttt	tanaaacggg	780
ccccccnccg						789

<210> 33
 <211> 793
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33

gacagaacat	ggttgatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tggttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtattt	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacaccca	gccatccctt	ctttcaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggn	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtcgggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcncctccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgccggcna	780
acggtatcna	cct					793

<210> 34
 <211> 756
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagttc	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tggcccgtga	catactggag	180
atcggggccc	aatggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctctg	ctgtcccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaa	gtnttctctg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgcn	ggttgctcca	gaaaggctnc	aanaanatcc	ttttcncctga	aggcccccg	600
atncnctagt	nctagaatcg	gcccgcacac	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	tttattgccg	cccttgccgt	tatcatggtc	acnccngttn	cctgtgttga	720
aattnttaac	ccccacaaat	tccacgccna	cattng			756

<210> 35
 <211> 834

<212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(834)
 <223> n = A,T,C or G

<400> 35

ggggatctct	anacnacct	gnatgcatgg	ttgtcgggtg	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cncctctggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggtgaactc	gatgacnang	ggcagctggt	tgtgtntgat	240
aaantccanc	angttctcct	tggtgacctc	cccttcaaag	ttgttccggc	cttcatcaaa	300
cttctnnaan	angannancc	cancctttgtc	gagctggnat	ttgganaaca	cgtcactggt	360
ggaaactgat	cccaaattgg	atgtcatcca	tcgcctctgc	tgcctgcaaa	aaacttgctt	420
ggcncaaadc	cgactccccc	tccttgaaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccntccnng	cagggttggt	ggcannccgg	gcccntgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcca	gctgtnttat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaact	ttgaccgtng	gaatagccgc	gentcnccnt	660
acntnctggg	ccgggttcaa	antccctccn	ttgncnntcn	cctcggggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cnccccncgg	ngtttggnnt	tttcatnggg	ccccaaactc	780
gctnttgggc	antcccttgg	gggcntntan	cnccccctnt	ggccccntng	ggcc	834

<210> 36
 <211> 814
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(814)
 <223> n = A,T,C or G

<400> 36

cggncgcttt	cngcgcgcgc	cccgtttcca	tgacnaagge	tcctttcang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgtctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccccgtga	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanaggtttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgtcca	cttctgcttg	ganaaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggangtc	ntttncagt	gatctgccaa	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancancctt	taagacccat	aatcctngaa	ccatggtgcc	600
cttcgggtct	gatecnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttgac	ccntgctngn	atnaaccaan	tganatcccc	ngaagcacc	tnccctggc	720
atttganttt	cntaaattct	ctgcctacn	nctgaaagca	cnattccctn	ggcnccnaan	780
gngaaactca	agaaggtctn	ngaaaaacca	cncn			814

<210> 37
 <211> 760
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(760)
 <223> n = A,T,C or G

<400> 37
 gcatgctgct cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg 60
 gcgcagtgtt cgctgaagg gttgtagtac cagcgcggga tgctctcctt gcagagtcct 120
 gtgtctggca ggcccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg 180
 tcnaanccac tcgtgtatth ttacangca gcctcctccg aagcntccgg gcagttgggg 240
 gtgtcgtcac actccactaa actgtcgatn cancagccca ttgtcgcagc ggaactgggt 300
 gggtgacag gtgccagaac acactggatn ggcttttcca tggaaaggcc tgggggaaat 360
 cncctnanc caaactgcct ctcaaaggcc accttgcaca ccccgacagg ctagaaatgc 420
 actcttcttc ccaaaggtag ttgttcttgt tgcccagca ncctccanca aaccaaaanc 480
 ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccggcngn 540
 gancncctt gtttgaatgc naaggnaata atctcctgt ctgtcttggg tggaaagca 600
 caattgaact gttaacnttg ggccnggttc cncnnggtg gtctgaaact aatcaccgtc 660
 actggaaaaa ggtangtgcc ttccttgaat tcccaaantt ccctngntt tgggtnttt 720
 ctctctncc ctaaaaatcg tnttcccccc cntanggcg 760

<210> 38
 <211> 724
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(724)
 <223> n = A,T,C or G

<400> 38
 tttttttttt tttttttttt tttttttttt tttttaaaaa cccctccat tgaatgaaaa 60
 ctccnaaat tgtccaaccc cctcnccaa atnnccattt ccgggggggg gttccaaacc 120
 caaattaatt ttgganttta aattaaatnt tnatnngggg aanaanccaa atgtnaagaa 180
 aatttaaccc attatnaact taaatnccn gaaaccntg gnttccaaaa atttttaacc 240
 cttaaattccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt 300
 ngatttaaac ccccttnant tnttttnacc cngnctnaa ntattngnt tccggtgttt 360
 tccntttaan cntnggtaac tcccgntaat gaannnccct aanccaatta aaccgaattt 420
 tttttgaatt ggaaattccn ngggaattna ccgggggttt tccnttttg gggccatncc 480
 cccnctttcg gggtttgggn ntaggttgaa ttttnnang nccccaaaaa ncccccaana 540
 aaaaaactcc caagnnttaa ttngaantnc ccccttccca ggctttttg gaaaggnggg 600
 tttntggggg ccngggantt cnttccccn ttncncccc ccccccnggt aaanggttat 660
 ngnttttgg ttttgggcc cttnanggac cttccggatn gaaattaaat ccccggnccg 720
 gccg 724

<210> 39
 <211> 751
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)

<223> n = A, T, C or G

tttttttttt	tttttctttg	ctcacattta	atttttattt	tgattttttt	taatgctgca	60
caacacaata	tttatttcat	ttgtttcttt	tatttcattt	tatttggttg	ctgctgctgt	120
tttattttatt	tttactgaaa	gtgagaggga	acttttgtgg	ccttttttcc	tttttctgta	180
ggcgcgctta	agcttttctaa	atttgggaaca	tctaagcaag	ctgaanggaa	aaggggggtt	240
cgcaaaaatca	ctcgggggaa	nggaaagggt	gctttgttaa	tcatgccta	tgttggtgta	300
ttaaactgctt	gtacaattac	ntttcacttt	taattaaattg	tgctnaangc	tttaattana	360
cttggggggtt	ccctccccc	accaaccctn	ctgacaaaaa	gtgcncgcc	tcaaattnatg	420
tcccgccnnt	cnttgaaaca	cacngcngaa	ngttctcatt	ntcccccnc	caggtnaaaa	480
tgaagggtta	ccatntttaa	cncacactcc	acntggcnnn	gcctgaatcc	tcnaaaancn	540
ccctcaancn	aattnctnng	ccccgggtcnc	gcntnngtcc	cncccgggct	cggggaantn	600
cacccccngta	annccnnntnc	naacnaaatt	ccgaaaatat	tcccnntcnc	tcaattcccc	660
cnnagactnt	ctcncnncan	cncaattttc	ttttnttcac	gaacncgnnc	cnnaaaatgn	720
nnnnncctc	cncnngtccn	naatcncan	c			751

<211> 753

<213> Home

 $\langle 220 \rangle$ $\langle 222 \rangle \quad (1) \dots (753)$

<400> 40

<211> 341

<213> Home

<400> 41

<210> 42
 <211> 101
 <212> DNA
 <213> Homo sapien

<400> 42
 acttactgaa ttttagttctg tgctcttcct tatttagtgt tgtatcataa atactttgat 60
 gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101

<210> 43
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 43
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcaccc 60
 tccaggggtgg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaaagtct aagaaaccca 180
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
 tggatacaga acgagagtta tcctggataa ctacagagctg agtacctgcc cgggggccgc 300
 tcgaa 305

<210> 44
 <211> 852
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaag tagtctttga aatatttacg tccaggagtt ctttgtttct 60
 gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tctttttag tagtatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttgtt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtc tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420
 acttggcagg ggggtcttgc tcctttttca tatcagggtga ctctgcaaca ggaaggtgac 480
 tgggtggtgt catggagatc tgagcccggc agaaagtttt gctgtccaac aaatctactg 540
 tgctaccata gttggtgtca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagtcctg acaatgacat tgtgtgtgga ctggaacagg tcactactgc 660
 actggccggt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctgccggttg atgtcgaaact 780
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

TTGGGGGCCGCTGAA

<400> 45

acaacagacc	cttgctcgct	aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	60
agtctgacac	catccggagc	atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	120
gcctcgtttc	tggtcgggg	ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	180
tgaacgtgtc	ggtggtgtct	gaggaggtct	gcagtaagct	ctatgacccg	ctgt	234

<210> 46

<211> 590

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(590)

<223> n = A,T,C or G

<400> 46

acttttttatt	taaatgttta	taaggcagat	ctatgagaat	gatagaaaac	atgggtgtgta	60
atttgatagc	aatattttgg	agattacaga	gttttagtaa	ttaccaatta	cacagttaaa	120
aagaagataa	tatattccaa	gcanatacaa	aatatcta	gaaagatcaa	ggcaggaaaa	180
tgantataac	taattgacaa	tgaaaatca	attttaatgt	gaattgcaca	ttatccttta	240
aaagctttca	aaanaanaa	ttattgcagt	ctanttaatt	caaacagtgt	taaatgggtat	300
caggataaan	aactgaagg	canaaaaga	taattttcac	ttcatgtaac	ncacccanat	360
ttacaatggc	ttaaattgcan	ggaaaaagca	gtggaagtag	ggaagtantc	aagggtctttc	420
tggtctctaa	tctgccttac	tctttgggtg	tggtcttgat	cctctggaga	cagctgccag	480
ggctcctgtt	atatccacaa	tcccagcagc	aagatgaagg	gatgaaaaag	gacacatgct	540
gccttccttt	gaggagactt	catctcactg	gccaaactc	agtcacatgt		590

<210> 47

<211> 774

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 47

acaagggggc	ataatgaagg	agtggggana	gattttaaag	aaggaaaaaa	aacgaggccc	60
tgaacagaat	tttcctgnac	aacggggcct	caaaaataatt	ttcttgggga	ggttcaagac	120
gcttcactgc	ttgaaactta	aatggatgtg	ggacanaatt	ttctgtaatg	accctgaggg	180
cattacagac	gggactctgg	gaggaaggat	aaacagaaag	gggacaaaag	ctaataccaa	240
aacatcaaag	aaaggaagg	ggcgtcatac	ctccagcct	acacagttct	ccagggtctt	300
cctcatccct	ggaggacgac	agtggaggaa	caactgacca	tgtccccagg	ctcctgtgtg	360
ctggctcctg	gtcttcagcc	cccagctctg	gaagcccacc	ctctgtgat	cctgcgtggc	420
ccacactcct	tgaacacaca	tcccagggtt	atattcctgg	acatggctga	acctcctatt	480
cctacttccg	agatgccttg	ctccctgcag	cctgtcaaaa	tcccactcac	cctccaaacc	540
acggcatggg	aagcctttct	gacttgcttg	attactccag	catcttgga	caatccctga	600
ttccccactc	cttagaggca	agataggggtg	gttaagagta	gggctggacc	acttgagacc	660
aggctgctgg	cttcaaattn	tggtcatttt	acgagctatg	ggaccttggg	caagtnatct	720
tcacttctat	gggcntcatt	ttgttctacc	tgcaaaatgg	gggataataa	tagt	774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(124)
 <223> n = A,T,C or G

<400> 48
 canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt 60
 ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact 120
 tggt 124

<210> 49
 <211> 147
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n = A,T,C or G

<400> 49
 gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt 60
 tgttggtaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt 120
 ttagggcacc catatcccaa gcantgt 147

<210> 50
 <211> 107
 <212> DNA
 <213> Homo sapien

<400> 50
 acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatataattgc 60
 atggtttgag gttaggagga gttaggcata tgttttggga gaggggt 107

<210> 51
 <211> 204
 <212> DNA
 <213> Homo sapien

<400> 51
 gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg 60
 cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag 120
 gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgccc cacttggccca 180
 cctccctttt gggaccagca atgt 204

<210> 52
 <211> 491
 <212> DNA
 <213> Homo sapien

106230: 135353

<220>
 <221> misc_feature
 <222> (1)...(491)
 <223> n = A,T,C or G

<400> 52
 acaaagataa catttatctt ataacaaaaa tttgatagtt ttaaagggtta gtattgtgta 60
 gggatatttc caaaagacta aagagataac tcaggtaaaa agttagaaat gtataaaaca 120
 ccatcagaca ggttttttaa aaacaacata ttacaaaatt agacaatcat ccttaaaaaa 180
 aaaacttctt gtatcaattt cttttgttca aaatgactga ctttaantatt tttaaatatt 240
 tcanaaacac ttcctcaaaa attttcaana tggtagcttt canatgtnc ctcagtccca 300
 atgttgctca gataaataaa tctcgtgaga acttaccacc caccacaagc tttctggggc 360
 atgcaacagt gtcttttctt tcttttttct tttttttttt ttacaggcac agaaactcat 420
 caattttatt tggataacaa agggctctcca aattatattg aaaaataaat ccaagttaat 480
 atcactcttg t 491

<210> 53
 <211> 484
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 53
 acataattta gcagggctaa ttaccataag atgctattta ttaanaggtn tatgatctga 60
 gtattaacag ttgctgaagt ttggatattt tatgcagcat tttctttttg ctttgataac 120
 actacagaac ccttaaggac actgaaaatt agtaagtaaa gttcagaaac attagctgct 180
 caatcaaadc tctacataac actatagtaa ttaaaacggt aaaaaaaagt gttgaaatct 240
 gcactagtat anaccgctcc tgtcaggata anactgcttt ggaacagaaa gggaaaaanc 300
 agctttgant ttctttgtgc tgatangagg aaaggctgaa ttaccttggt gcctctccct 360
 aatgattggc aggtcnggta aatnccaaaa catattccaa ctcaacactt cttttccncg 420
 tancttgant ctgtgtattc caggancagg cggatggaat gggccagccc ncggatgttc 480
 cant 484

<210> 54
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 54
 actaaacctc gtgcttggtga actccatata gaaaacggtg ccattccctga acacggctgg 60
 ccactgggta tactgctgac aaccgcaaca aaaaaaacac aaatccttgg cactggctag 120
 tctatgtcct ctcaagtgcc tttttgtttg t 151

<210> 55
 <211> 91
 <212> DNA
 <213> Homo sapien

<400> 55

106290-116566

<400> 59						
acaacaaatg	ggttgtagag	aagtcttatc	agcaaaactg	gtgatggcta	ctgaaaagat	60
ccattgaaaa	ttatcattaa	tgattttaaa	tgacaagtta	tcaaaaactc	actcaatttt	120
cacctgtgct	agcttgctaa	agctggagtt	aactctagag	caaatatagt	atcttctgaa	180
tacatgtcaat	aaatgacaaa	gccagggcct	acaggtggtt	tccagacttt	ccagaccag	240

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<210> 60
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 61
<211> 154
<212> DNA
<213> Homo sapien
```

```
<210> 62
<211> 30
<212> DNA
<213> Homo sapien
```

```
<210> 63
<211> 89
<212> DNA
<213> Homo sapien
```

```
<210> 64
<211> 97
<212> DNA
<213> Homo sapien
```

```
<210> 65
<211> 377
<212> DNA
<213> Homo sapien
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<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 65

acaacaanaa ntcccttctt taggccaactg atggaaacct ggaaccccct tttgatggca	60
gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc	120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcagggg	180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa	240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaacccg	300
tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag	360
gggcgggagg agcatgt	377

<210> 66
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 66

acgcctttcc ctccagaattc agggaagaga ctgtcgctg ccttcctccg ttgttgcgctg	60
agaaccogtg tgccccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg	120
aggaactaac tgcacctgg tccctctccc agtccccagt tcacctcca tccctcacct	180
tctccaactc taagggatat caaacctgcc cagcacaggg gccctgaatt tatgtggttt	240
ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac	300
tgttt	305

<210> 67
 <211> 385
 <212> DNA
 <213> Homo sapien

<400> 67

actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga	60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc	120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc	180
tgtgctgtgc tggagattca cttttgagag agttctctc tgagacctga tcttttagagg	240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg	300
cctctccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgccatac	360
catagtttct gtgctagtgg accgt	385

<210> 68
 <211> 73
 <212> DNA
 <213> Homo sapien

<400> 68

acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa	60
gttttttttaa tgg	73

<210> 69
 <211> 536
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(536)
 <223> n = A,T,C or G

<400> 69

actagtccag	tgtggtggaa	ttccattgtg	ttgggggctc	tcacctcct	ctcctgcagc	60
tccagctttg	tgctctgcct	ctgaggagac	catggcccag	catctgagta	ccctgctgct	120
cctgctggcc	accctagctg	tgccctggc	ctggagcccc	aaggaggagg	ataggataat	180
cccggttggc	atctataacg	cagacctcaa	tgatgagtgg	gtacagcgtc	cccttcactt	240
cgccatcagc	gagtataaca	aggccaccaa	agatgactac	tacagacgtc	cgctgcgggt	300
actaagagcc	aggcaacaga	ccgttggggg	ggtgaattac	ttcttcgacg	tagaggtggg	360
ccgaaccata	tgtaccaagt	cccagcccaa	cttggaacac	tgtgccttcc	atgaacagcc	420
agaactgcag	aagaaacagt	tgtgctcttt	cgagatctac	gaagttccct	ggggagaaca	480
gaangtcct	gggtgaaatc	caggtgtcaa	gaaatcctan	ggatctgttg	ccaggc	536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70

atgacccta	acaggggcc	tctcagccct	cctaatagac	tccggcctag	ccatgtgatt	60
tcaattccac	tccataacgc	tctcataact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggattttt	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atccccctaga	agtcccactc	ctaaacacat	360
ccgtattact	cgcatcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420
accgaaacca	aattattcaa	agcactgctt	attacaattt	tactgggtct	ctattttt	477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71

agagctatag	gtacagtgtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gatttggtta	120
tgtgatttta	gtggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attatttcca	taacttaaaa	agtgaagttg	aaaaagaaaa	tctccagcaa	gcatctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gactttttta	aaaagctgtc	300
aaatagggtg	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccctc	ctcaattttg	tattttttaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaaa	gaagaattct	gcc	533

<210> 72

<211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(511)
 <223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcgtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggt	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73
 <211> 499
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(499)
 <223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcca	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtgg	ttcagtgtcg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggt	ggagctggtg	ccagcaccag	tggcagctct	ggtgccctgtg	gtttctccta	180
caagtgagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaaggg	cgccgcctcg	360
antctagagg	gcccgtttaa	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgccctcc	cccgntgcct	tccttgaccc	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaat					499

<210> 74
 <211> 537
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(537)
 <223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aatcagata	aatcattga	aagtaataag	gtaaaagcta	gtctctaact	120

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tccaggccca cggctcaagt gaatttgaat actgcattta cagtgtagag taacacataa 180
cattgtatgc atggaaacat ggaggaacag tattacagtg tcctaccact ctaatcaaga 240
aaagaattac agactctgat tctacagtga tgattgaatt ctaaaaatgg taatcattag 300
ggcttttgat ttataanact ttgggtactt atactaaaatt atggtagtta tactgccttc 360
cagtttgctt gatataattg ttgatattaa gattcctgac ttatattttg aatgggttct 420
actgaaaaan gaatgatata ttcttgaaga catcgatata catttattta cactcttgat 480
tctacaatgt agaaaatgaa ggaaatgcc caaattgtat ggtgataaaa gtcccgt 537

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<210> 75
<211> 467
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(467)
<223> n = A,T,C or G

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<400> 75
caaanacaat tgttcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
tgcataattac acgtacctcc tcctgctcct caagtagtgt ggtctatttt gccatcatca 120
cctgctgtct gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
tggcacaagg aggccatctt ttctcatcg gttattgtcc ctagaagcgt cttctgagga 240
tctagttggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300
tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360
caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420
ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

```

```

<210> 76
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

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<400> 76
aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgctac 60
tctctctttc tggcctggag gctatccagc gtactccaaa gattcaggtt tactcacgtc 120
atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg tttcatccat 180
ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaatg gagcattcag 240
acttgtcttt cagcaaggac tggctcttct atctcttgta ctacactgaa ttcaccccca 300
ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360
ttnagtggga tcganacatg taagcagcan catgggaggt 400

```

```

<210> 77
<211> 248
<212> DNA
<213> Homo sapien

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```

<400> 77
ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60

```

```

ccagctgccc cggcggggga tgcgaggctc ggagcacccct tgcccggctg tgattgctgc 120
caggcactgt tcatctcagc ttttctgtcc ctttgtctcc ggcaagcgct tctgctgaaa 180
gttcataatct ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaa 240
aaaaaaaaa 248

```

```

<210> 78
<211> 201
<212> DNA
<213> Homo sapien

```

```

<400> 78
actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60
tcaccagac cccgccctgc ccgtgcccc cgtgctgct aacgacagta tgatgcttac 120
tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttggtt ataaatgcct 180
gatttaaaaa aaaaaaaaaa a 201

```

```

<210> 79
<211> 552
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(552)
<223> n = A,T,C or G

```

```

<400> 79
tccttttggt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60
tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120
cctctttctt ctgaagatta atgaagtgtg aaattgaggt ggataaatac aaaaaggtag 180
tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240
atgcaagtta gtaattactc agggttaact aaattacttt aatatgctgt tgaacctact 300
ctgttccttg gctagaaaaa attataaaca ggactttggt agtttgggaa gccaaattga 360
taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tggaaatttta 420
ttcccaggaa tatgggggttc atttatgaat antaccggg anagaagttt tgantnaaac 480
cngttttggt taatacgtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540
aaaaaaaaa aa 552

```

```

<210> 80
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 80
acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60
ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120
cacacagact cccgagtagc tgggactaca ggacacagc cactgaagca ggccctgttt 180
gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcacta 240
aggttaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300

```

```

tctttetaagt cctctttccag cctcactttg agtcctcctt ggggggttgat aggaantntc 360
tcttggtctt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420
gctgaaaaaa ttaaatgtt ctggtttcnc tttaaaaaaa aaaaaaaaaa aaaaaa 476

```

```

<210> 81
<211> 232
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 81
tttttttttg tatgcentcn ctgtgnggtt attgttgctg ccaccctgga ggagcccagt 60
ttcttctgta tctttctttt ctgggggata ttcttggtc tgccctcca ttcccagcct 120
ctcatcccca tcttgactt ttgctagggt tggaggcgt ttcttggttag cccctcagag 180
actcagtcag cgggaataag tcctaggggt ggggggtgtg gcaagccggc ct 232

```

```

<210> 82
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 82
aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
agtaccagta ccaataacat gccagtgccg gtgccagcac cagtgggtggc ttcatgtctg 120
gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctggtg 180
ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtgagat tttagatatt 240
gttaatcctg ccagtctttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300
agcactctng gcagccacta tcaatcaatt gaagtttgaca ctctgcatta aatctatttg 360
ccatttcaaa aaaaaaaaaa aaa 383

```

```

<210> 83
<211> 494
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(494)
<223> n = A,T,C or G

```

```

<400> 83
accgaattgg gaccgctggc ttataagcga tcatgtcttc cagtattacc tcaacgagca 60
gggagatcga gtctatacgc tgaagaaatt tgacccgatg ggacaacaga cctgctcagc 120
ccatcctgct cgtttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
acgcttcaag gtgctcatga cccagcaacc gcgcctgtc ctctgagggt ccttaaaactg 240

```

```
<210> 84
<211> 380
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(380)
<223> n = A,T,C or G
```

```
<210> 85
<211> 481
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(481)
<223> n = A,T,C or G
```

```
<210> 86
<211> 472
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(472)
```

<223> n = A,T,C or G

<400> 86

```
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt    60
acttggaata gcaacttnaa gcctggacac tggattataa attcacaata tgcaacactt    120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg    180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga    240
cacaagtcgg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcacttttct    300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg    360
atatntgagc ggaagantag cttttctact tcaccagaca caactccttt catattggga    420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg          472
```

<210> 87

<211> 413

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)..(413)

<223> n = A,T,C or G

<400> 87

```
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatTT tgtgtgcgtg    60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg    120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct    180
ttgtcttctg tgtaaatgtt actagagaaa acacctatnt tatgagtcaa tctagttngt    240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg    300
ggggacaaag aaaagcnaaa ctgaacatna gaaacaattn cctggtgaga aattncataa    360
acagaaattg ggtngtatat tgaaananng catcattnaa acgttttttt ttt          413
```

<210> 88

<211> 448

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)..(448)

<223> n = A,T,C or G

<400> 88

```
cgcagcgggt cctctctatc tagctccagc ctctcgcttg ccccaactcc cgcgtcccgc    60
gtcctagccn accatggccg ggcccctgcg cgcccgcgtg ctctgctggt ccactctggc    120
cgtggccctg gccgtgagcc ccgcggcccg ctccagtcct ggcaagccgc cgcgcctggt    180
gggaggccca tggaccccgc gtggaagaag aaggtgtgcg gcgtgactg gactttgccg    240
tcggcnanta caacaaaccg gcaacnactt ttaccnagcn cgcgctgcag gttgtgccgc    300
cccaancaaa ttgttactng gggtaantaa ttcttggaag ttgaacctgg gccaaacnng    360
tttaccagaa ccnagccaat tngaacaatt ncccctccat aacagcccct tttaaaaaag    420
gaancantcc tgntcttttc caaatTTT          448
```

<210> 89

<211> 463

<212> DNA

CCCTATTGAGC

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(463)

<223> n = A,T,C or G

<400> 89

gaattttgtg	cactggccac	tgtgatggaa	ccattgggcc	aggatgcttt	gagtttatca	60
gtagtgattc	tgccaaagtt	gggtgtgtaa	catgagtatg	taaaatgtca	aaaaattagc	120
agaggtctag	gtctgcatat	cagcagacag	tttgtccgtg	tattttgtag	ccttgaagtt	180
ctcagtgaca	agttntttct	gatgcgaagt	tctnattcca	gtgttttagt	cctttgcac	240
tttntatgtn	agacttgcc	ctntnaaatt	gcttttgtnt	tctgcaggta	ctatctgtgg	300
tttaacaaaa	tagaannact	tctctgcttn	gaanatttga	atatcttaca	tctnaaaatn	360
aattctctcc	ccatannaaa	acccangccc	ttggganaat	ttgaaaaang	gntccttcnn	420
aattcnnana	anttcagntn	tcatacaaca	naacngganc	ccc		463

<210> 90

<211> 400

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(400)

<223> n = A,T,C or G

<400> 90

agggattgaa	ggctctntnt	actgtcggac	tgttcancca	ccaactctac	aagttgctgt	60
cttccactca	ctgtctgtaa	gcntnttaac	ccagactgta	tcttcataaa	tagaacaat	120
tcttcaccag	tcacatcttc	taggaccttt	ttggattcag	ttagtataag	ctctccact	180
tcctttgtta	agacttcac	tggtaaagtc	ttaagttttg	tagaaaggaa	tttaattgct	240
cgttctctaa	caatgtcctc	tccttgaagt	atgttgctga	acaaccacc	tnaagtcct	300
ttgtgcatcc	attttaata	tacttaatag	ggcattggtn	cactagggta	aattctgcaa	360
gagtcacatg	tctgcaaaag	ttgcgttagt	atatctgcca			400

<210> 91

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(480)

<223> n = A,T,C or G

<400> 91

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggctaccccc	acatgggagc	agcatgccgt	agntatataa	ggcattccc	tgagtcagac	120
atgcctcttt	gactaccgtg	tgccagtgt	gggtattctc	acacacctcc	nnccgctctt	180
tgtggaaaaa	ctggcacttg	nctggaacta	gcaagacatc	acttacaat	tcaccacga	240
gacacttgaa	aggtgtaaca	aagcgactct	tgcattgctt	tttgtccctc	cggcaccagt	300
tgtcaatact	aaccgctgg	tttgctcca	tcacatttgt	gatctgtagc	tctggatata	360
tctcctgaca	gtactgaaga	acttcttctt	ttgtttcaaa	agcaactctt	ggtgcctgtt	420

ngatcagggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa 480

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G

<400> 92
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcgggtcact 60
ggccccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
cccacgcagg cagcagcggg gccgggtcaat gaactccact cgtggcttgg ggttgacggg 180
taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240
tgcagcgaaa ctectcgatg gtcattgagcg ggaagcgaat gangcccagg gccttgccca 300
gaaccttccg cctgtttctct ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtgcgctcc 420
aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
<211> 377
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(377)
<223> n = A,T,C or G

<400> 93
gaacggcttg accctgcctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60
agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc 120
cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180
tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata tccaaaacaa 240
caacaacaaa ataacatggt tgcctgttna gttgtataaa agtangtgat tctgtatnta 300
aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattg tncctctggaa 360
ataaatatat tattaata 377

<210> 94
<211> 495
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(495)
<223> n = A,T,C or G

<400> 94
ccctttgagg ggtaggggc cagttcccag tggaagaaac aggccaggag aantgcgtgc 60
cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccctt 120


```

ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaag 180
gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240
acgaggaana ggccctgant cctgggatca nacacccctt cacgtgtatc cccacacaaa 300
tgcaagctca ccaaggtccc ctctcagtc cttccctaca ccctgaacgg nactggccc 360
acccccccc agancancca cccgccatgg ggaatgtnt caaggaatcg cngggcaacg 420
tggaactctng tcccnnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480
aaaaaaaaana aaaaaa 495

```

```

<210> 95
<211> 472
<212> DNA
<213> Homo sapien .

```

```

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

```

```

<400> 95
ggttacttgg ttccattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact 180
tatttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta 300
atcggcacaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360
ttggttattt tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
ttanttcana taatttcttt ccttgtttac gttaattttg aaaagaatgc at 472

```

```

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

```

```

<400> 96
ctgaagcatt tcttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60
gtggtgaaat ttcaaaatta tatgtaactt ctactagttt tactttctcc cccaagtctt 120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat 240
agctggatac atacngtggg agttctataa actcacactc cagtgggact naacccaaat 300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360
gcaggtaact ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420
tacaaagtct atcttcctca nangtctgtn aaggacaat ttaatcttct agcttt 476

```

```

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

```

```

<220>

```

CCGCGGCTTTTGGG

<400> 97

<210> 98

<211> 461

<212> DNA

<213> Homo sapien

<400> 98

<210> 99

<211> 171

<212> DNA

<213> Homo sapien

<400> 99

 $\langle 210 \rangle$ 100

<211> 269

<212> DNA

<213> Homo sapien

 $\langle 400 \rangle$ 100

<210> 101

<211> 405

<212> DNA

<213> Homo sapien

<400> 101

tttttttttt	ttttggaatc	tactgcgagc	acagcaggtc	agcaacaagt	ttatttttgca	60
gctagcaagg	taacagggtg	gggcatggtt	acatgttcag	gtcaacttcc	tttgtcgtgg	120
ttgattggtt	tgtctttatg	ggggcggggt	ggggtagggt	aaacgaagca	aataacatgg	180
agtgggtgca	ccctccctgt	agaacctggt	tacaaaagctt	ggggcagttc	acctggtctg	240
tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagtcca	300
ctgttctgga	gggagattag	ggtttcttgc	caaatccaac	aaaatccact	gaaaaagttg	360
gatgatcagt	acgaataccg	aggcatattc	tcatatcggt	ggcca		405

<210> 102

<211> 470

<212> DNA

<213> Homo sapien

<400> 102

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ggcacttaat	ccatttttat	ttcaaaatgt	ctacaaattt	aatcccat	tacggtat	120
tcaaaatcta	aattattcaa	attagccaaa	tccttaccaa	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctggtgtttt	240
caaagtacaa	ttatcttaac	actgcaaaac	ttttaaggaa	ctaaaataaa	aaaaaacact	300
ccgcaaaggt	taaaggggaa	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgtttat	420
ttttaaacca	ttgtttgggc	ccaacacaat	ggaatcccc	ctggactagt		470

<210> 103

<211> 581

<212> DNA

<213> Homo sapien

<400> 103

tttttttttt	tttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tcttttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	tttccctaaa	360
agggaaaaca	ggaagagaaa	tggcacacaa	aacaaacatt	ttatattcat	atttctacct	420
acgttaataa	aatagcattt	tgtgaagcca	gctcaaaaga	aggcttagat	ccttttatgt	480
ccatttttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaaggtttgt	gaacatttat	540
tcaaaagcta	atataagata	tttcacatac	tcattcttct	g		581

<210> 104

<211> 578

<212> DNA

<213> Homo sapien

<400> 104

tttttttttt	tttttttttt	tttttctctt	cttttttttt	gaaatgagga	tcgagttttt	60
cactctctag	atagggcag	aagaaaactc	atctttccag	ctttaaaata	acaatcaaat	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaagtgtgc	actggcttat	cttctcctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcatattga	240
gagggttttc	ttctctat	acacatatat	ttccatgtga	atttgtatca	aacctttatt	300

ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaaactgct	caaattgttt	gttaagttaa	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaatatc	caaaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tgttattatt	cctagcccaa	cacaatgg			578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

tttttttttt	tttttcagta	ataatcagaa	caatatattat	ttttatatatt	aaaattcata	60
gaaaagtgcc	ttacatttaa	taaaagtgtg	tttctcaaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atattattagc	tctgcaactt	acatatattaa	attaaagaaa	cgttttagac	aactgtacaa	120
tttataaatg	taaggtgcca	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatcccat	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agaactgtgc	tgtctgaatc	aaatgatctg	acctatcctc	ggtggcaaga	actcttcgaa	420
ccgcttcctc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

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ccgctacgac	gtgagccgct	tgggcccggg	caagcgctcg	ctagtgtctg	acctgaagca	180
gccgcgggga	gccgcggtgc	tgcggcgctc	gtgcaagcgg	tcggatgtgc	tgctggagcc	240
cttccgcgcg	ggtgtcatgg	agaaactcca	gctgggcccc	gagattctgc	agcgggaaaa	300
tccaaggcct	atattatgcca	ggctgagtg	atltggccag	tcaggaagct	tctgccgggt	360
agctggccac	gatatcaact	atltggcctt	gtcagtggtt	ctctcaaaaa	ttggcagaag	420
tggtgagaat	ccgtatgcc	cgtgaatct	cctggctgac	tttgctggtg	gtggccttat	480
gtgtgcactg	ggcattataa	tggctctttt	tgaccgcaca	cgcactgaca	agggtcaggt	540
cattgatgca	aatatggtgg	aaggaacagc	atatttaagt	tcttttctgt	ggaaaactca	600
gaaatcgagt	ctgtgggaag	cacctcgagg	acagaacatg	ttggatggtg	gagcaccttt	660

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<210> 108
<211> 382
<212> PRT
<213> Homo sapien
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<400> 108															
Met 1	Ala	Leu	Gln	Gly 5	Ile	Ser	Val	Met	Glu 10	Leu	Ser	Gly	Leu	Ala 15	Pro
Gly	Pro	Phe	Cys 20	Ala	Met	Val	Leu	Ala 25	Asp	Phe	Gly	Ala 30	Arg	Val	Val
Arg	Val	Asp 35	Arg	Pro	Gly	Ser	Arg 40	Tyr	Asp	Val	Ser 45	Arg	Leu	Gly	Arg
Gly	Lys 50	Arg	Ser	Leu	Val	Leu 55	Asp	Leu	Lys	Gln 60	Pro	Arg	Gly	Ala	Ala
Val 65	Leu	Arg	Arg	Leu 70	Cys	Lys	Arg	Ser	Asp 75	Val	Leu	Leu	Glu	Pro 80	Phe
Arg	Arg	Gly	Val	Met 85	Glu	Lys	Leu	Gln 90	Leu	Gly	Pro	Glu	Ile 95	Leu	Gln
Arg	Glu	Asn 100	Pro	Arg	Leu	Ile	Tyr 105	Ala	Arg	Leu	Ser	Gly	Phe 110	Gly	Gln
Ser	Gly	Ser 115	Phe	Cys	Arg	Leu 120	Ala	Gly 125	His	Asp	Ile	Asn 125	Tyr	Leu	Ala
Leu 130	Ser	Gly	Val	Leu	Ser	Lys 135	Ile	Gly	Arg	Ser 140	Gly	Glu	Asn	Pro	Tyr
Ala 145	Pro	Leu	Asn	Leu 150	Leu	Ala	Asp	Phe	Ala 155	Gly	Gly	Gly	Leu	Met 160	Cys
Ala	Leu	Gly	Ile 165	Ile	Met	Ala	Leu 170	Phe	Asp	Arg	Thr	Arg 175	Thr	Asp	Lys
Gly	Gln	Val	Ile 180	Asp	Ala	Asn 185	Met	Val	Glu	Gly	Thr 190	Ala	Tyr	Leu	Ser
Ser	Phe 195	Leu	Trp	Lys	Thr	Gln 200	Lys	Ser	Ser	Leu	Trp 205	Glu	Ala	Pro	Arg
Gly	Gln 210	Asn	Met	Leu	Asp	Gly 215	Gly	Ala	Pro	Phe 220	Tyr	Thr	Thr	Tyr	Arg
Thr 225	Ala	Asp	Gly	Glu 230	Phe	Met	Ala 235	Val	Gly	Ala 235	Ile	Glu	Pro	Gln	Phe 240

```
<210> 109
<211> 1524
<212> DNA
<213> Homo sapien
```

$$\begin{array}{ll} \langle 210 \rangle & 110 \\ \langle 211 \rangle & 3410 \end{array}$$

<400> 110						
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ggcggcagca	aggaggagag	gccgcagctt	ctggagcaga	gccgagacga	agcagttctg	240
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ggtgagccgc	ctgtctggcg	accggaagc	ccagctcttg	ctggccaacc	tgctaacctt	360
tggcctggag	gtgtgttttg	ccgcaggcat	cacctatgtg	ccgcctctgc	tgctggaagt	420
gggggtagag	gagaagttca	tgaccatggt	gctgggcatt	ggtccagtgc	tgggcctggt	480
ctgtgtcccc	ctcctaggct	cagccagtga	ccactggcgt	ggacgctatg	gccgcccgcg	540
gcccctcatc	tggcactgt	ccttgggcgt	cctgctgagc	ctctttctca	tccaaggggc	600
cggttggtca	gcagggtgc	tgtgcccgga	tccaaggccc	ctggagctgg	cactgctcat	660
cctgggcgtg	gggctgctgg	acttctgttg	ccaggtgtgc	tctactccac	tggaggccct	720
gctctctgac	ctcttccggg	acccggaaca	ctgtccgccg	gcctactctg	tctatgcctt	780
catgatcagt	cttgggggct	gcttgggcta	cctctgctct	gccattgact	gggacaccag	840
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cgagccagca	gaagggtgt	cgccccctc	cttgtcgccc	cactgctgtc	catgccgggc	1020
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gaccttcacg	ctgttttaca	cggatttcgt	gggcgagggg	ctgtaccagg	gcgtgccca	1200
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cagagacaca	ggcatttaaa	tatttaactt	atttatttaa	caaagtagaa	gggaatccat	2640
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ctggcccccc	aaaatgcta	accaggagcc	ttggaatttc	tactcatccc	aaatgataat	2820
tccaaatgct	gttacccaag	gttaggggtg	tgaaggaatg	tagaggggtg	ggcttcagggt	2880
ctcaacggct	tccctaacca	ccctctctct	cttggcccag	ctggtttccc	cccaactcca	2940
ctccccctca	ctctctctag	gactgggctg	atgaaggcac	tgcccaaaat	ttccccctacc	3000

```

cccaactttc cctaccccc aactttcccc accagctcca caaccctggt tggagctact 3060
gcaggaccag aagcacaaaag tgcggtttcc caagcctttg tccatctcag ccccagagt 3120
atatctgtgc ttggggaatc tcacacagaa actcaggagc accccctgcc tgagctaagg 3180
gaggtcttat ctctcagggg ggggtttaagt gccgtttgca ataatgtcgt cttattttatt 3240
tagcgggggtg aatatttttat actgtaagtg agcaatcaga gtataatggt tatgggtgaca 3300
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aaaaaaaaara aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaaaaaaa 3410

```

<210> 111
 <211> 1289
 <212> DNA
 <213> Homo sapien

```

<400> 111
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gtggagcctc agcagttccc tctttcagaa ctactgcca agagccctga acaggagcca 120
ccatgcagtg cttcagcttc attaaagacca tgatgatcct cttcaatttg ctcatctttc 180
tgtgtggtgc agccctggtg gcagtgggca tctgggtgtc aatcgatggg gcatcctttc 240
tgaagatctt cgggccactg tcgtccaagt ccatgcagtt tgtcaacgtg ggctacttcc 300
tcctgcgagc cggcggttgtg gtctttgtct ttggtttcct gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcactct cctcctcctc ttcattgctg 420
aggttgagc tgcgtgtgtg gccttggtgt acaccacaat ggctgagcac ttcctgacgt 480
tgctggtagt gcctgccatc aagaaagatt atggttccca ggaagacttc actcaagtgt 540
ggaacaccac catgaaaggg ctcaagtgtc gtggcttcac caactatacg gatthtgagg 600
actcacccta cttcaaaagag aacagtgcct ttccccatt ctgttgcaat gacaacgtca 660
ccaacacagc caatgaaacc tgcaccaagc aaaaggctca cgaccaaaaa gtagagggtt 720
gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggctgcca tgattgtgtc catgtatctg tactgcaatc 840
tacaataagt ccacttctgc ctctgccact actgctgcca catgggaact gtgaagaggc 900
accctggcaa gcagcagtg ttgggggagg ggacaggatc taacaatgtc acttgggcca 960
gaatggacct gccctttctg ctccagactt ggggctagat agggaccact ccttttagcg 1020
atgcctgact ttcccttccat tgggtgggtg atgggtgggg ggcatccag agcctctaag 1080
gtagccagtt ctgttgccca ttccccagct ctattaaacc cttgatatgc cccctaggcc 1140
tagtgggtgat cccagtgtc tactggggga tgagagaaag gcattttata gcctgggcat 1200
aagtgaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
tgttacaatg ttaaaaaaaa aaaaaaaaaa 1289

```

<210> 112
 <211> 315
 <212> PRT
 <213> Homo sapien

```

<400> 112
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
1          5          10          15
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20          25          30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35          40          45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50          55          60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65          70          75          80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser

```



```
<210> 113
<211> 553
<212> PRT
<213> Homo sapien
```

<400> 113															
Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala
1				5					10					15	
Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu
			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
		35					40					45			
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly
	50					55					60				
Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly
65					70					75					80
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile
				85					90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
			100					105					110		
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120					125			
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				

<210> 114

<211> 241
 <212> PRT
 <213> Homo sapien

<400> 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Ala Val Gly Ile Trp Val
 20 25 30
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
 35 40 45
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
 50 55 60
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
 65 70 75 80
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Ile Leu Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
 115 120 125
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
 130 135 140
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
 145 150 155 160
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
 165 170 175
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
 180 185 190
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
 195 200 205
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
 210 215 220
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
 225 230 235 240
 Gln

<210> 115
 <211> 366
 <212> DNA
 <213> Homo sapien

<400> 115

gctctttctc tcccctcctc tgaatttaac tctttcaact tgcaatttgc aaggattaca 60
 cttttcactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac 120
 ttggtttgtg aatccatctt gctttttccc catttggaact agtcattaac ccatctctga 180
 actggtagaa aaacatctga agagctagtc tatcagcattc tgacaggtga attggatggt 240
 tctcagaacc atttcaccca gacagcctgt ttctatcctg tttaataaat tagtttgggt 300
 tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt 360
 ttagtc 366

<210> 116
 <211> 282

<220>
 <221> misc_feature
 <222> (1)...(76)
 <223> n = A,T,C or G

<400> 123
 tgtagcgtga agacnacaga atggtgtgtg ctgtgctatc caggaacaca tttattatca 60
 ttatcaanta ttgtgt 76

<210> 124
 <211> 131
 <212> DNA
 <213> Homo sapien

<400> 124
 acctttcccc aaggccaatg tcctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
 ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgcttttgca agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccctc agtgcctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaattttt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA

6036344733304

<213> Homo sapien

<400> 128

```
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc      60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca      120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc      180
ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt      240
ttcctgcaaa aggtcactc agtcccttgc ttgctcagtg gactgggctc cccagggcct      300
aggctgcctt cttttccatg tcc                                         323
```

<210> 129

<211> 192

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(192)

<223> n = A,T,C or G

<400> 129

```
acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatac      60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc      120
tagcacattc atctgtgata naaagatagg tgagtttcat ttccttcacg ttggccaatg      180
gataaacaaa gt                                         192
```

<210> 130

<211> 362

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 130

```
ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca      60
tataatgacg caacaaaaag gtgctgttta gtcctatggg tcagtttatg cccctgacaa      120
gtttccattg tgttttgccg atcttctggc taatcgtggg atcctccatg ttattagtaa      180
ttctgtattc cattttgtta acgcctggta gatgtaacct gctangaggc taactttata      240
cttattttaa agctcttatt ttgtggtcat taaaatggca atttatgtgc agcactttat      300
tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaattctta aaaagtaatg      360
gg                                         362
```

<210> 131

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

```

<400> 131
ctttttgaaa gatcgtgtcc actcctgtgg acatcttggt ttaatggagt ttcccatgca    60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga    120
gttctccag gttcgccctg ctgctccaag tctcagcagc agcctctttt aggaggcatc    180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa    240
cttccatctg ttatcactgg agaaagccca gactcccan gacnggtacg gattgtgggc    300
atanaaggat tgggtgaagc tggcgttggt gt                                332

```

```

<210> 132
<211> 322
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

```

```

<400> 132
acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc    60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat    120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt    180
tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg    240
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct agggaagcct    300
gtaacaatct acaattggtc ca                                322

```

```

<210> 133
<211> 278
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

```

```

<400> 133
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt    60
cttgtttttc ttccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta    120
ctatttaaaa aaaatcacia atctttccct ttaagctatg ttnaattcaa actattcctg    180
ctattcctgt ttgtcaaag aaattatatt tttcaaaaata tgtntatttg tttgatgggt    240
cccacgaaac actaataaaa accacagaga ccagcctg                                278

```

```

<210> 134
<211> 121
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G

```



```

<400> 134
gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaacttttga ttttaaaaca      60
tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttg      120
t                                                                121

```

```

<210> 135
<211> 350
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(350)
<223> n = A,T,C or G

```

```

<400> 135
acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc      60
atancaagtg gtgactggtt aagcgtgcga caaaggtcag ctggcacatt acttggtgtgc      120
aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtagtcca      180
gggtgcccc caactcctgc agccgtcctt ctgtgccagn ccctgnaagg aactttcgtc      240
ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag      300
ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt      350

```

```

<210> 136
<211> 399
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

```

```

<400> 136
tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccagggtt      60
gctgtgattg tatccgaata ntctctgtga gaaaagataa tgagatgacg tgagcagcct      120
gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga      180
cctggcggcc agccagccag ccacaggtgg gcttcttctt ttgtgtgtga caacnccaag      240
aaaactgcag aggccagggt tcaggtgtna gtgggtangt gaccataaaa caccagggtgc      300
tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgccacac tggcgtgatg      360
ggtgcagang gatgaagcag ccagntgttc tgctgtggt      399

```

```

<210> 137
<211> 165
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(165)
<223> n = A,T,C or G

```

```

<400> 137
actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt      60

```

<210>	141
<211>	335
<212>	DNA


```
<210> 145
<211> 303
<212> DNA
<213> Homo sapien
```

<400> 145							
acgtagacca	tccaactttg	tatttgtaat	ggcaaacatc	cagnagcaat	tcctaaacaa		60
actggagggt	atttatacc	aattatccca	ttcattaaca	tgccctcctc	ctcaggctat		120
gcaggacagc	tatcataagt	cggeccaggc	atccagatac	taccatttgt	ataaacttca		180
gtaggggagt	ccatccaagt	gacagggtcta	atcaaaggag	gaaatggaac	ataagcccag		240
tagtaaaatn	ttgcttagct	gaaacagcca	caaaagactt	accgccgtgg	tgattaccat		300
caa							303

```
<210> 146
<211> 327
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(327)
<223> n = A,T,C or G
```

<400> 146						
actgcagctc	aattagaagt	ggtctctgac	tttcatcanc	ttctccctgg	gctccatgac	60
actggcctgg	agtgactcat	tgctctggtt	ggttgagaga	gctcctttgc	caacaggcct	120
ccaagtcagg	gctgggattt	gtttcctttc	cacattctag	caacaatatg	ctggcacttt	180
cctgaacagg	gagggtgga	ggagccagca	tggaacaagc	tgccactttc	taaagtagcc	240
agacttgccc	ctgggcctgt	cacacctact	gatgaccttc	tgtgcctgca	ggaatggaatg	300
taqqqgtgaq	ctgtctgact	ctatqgt				327

```
<210> 147
<211> 173
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(173)
<223> n = A,T,C or G
```

<400> 147
acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg 60

```
<210> 148
<211> 477
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(477)
<223> n = A,T,C or G
```

```
<210> 149
<211> 207
<212> DNA
<213> Homo sapien
```

```
<210> 150
<211> 111
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(111)  
<223> n = A,T,C or G
```

```
<210> 151
<211> 196
<212> DNA
<213> Homo sapien
```

<400> 151

```
<210> 152
<211> 132
<212> DNA
<213> Homo sapien
```

```
<210> 153
<211> 285
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(285)  
<223> n = A,T,C or G
```

```
<210> 154
<211> 333
<212> DNA
<213> Homo sapien
```

```
<210> 155
<211> 308
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(308)
<223> n = A,T,C or G
```

<400> 155
 actggaaata ataaaaccca catcacagtg ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgtt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120
 ttgaatcacg gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggt 240
 gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcattgctg 300
 gccctggt 308

<210> 156
 <211> 295
 <212> DNA
 <213> Homo sapien

<400> 156
 accttgctcg gtgcttgga catattagga actcaaaata tgagatgata acagtgccta 60
 ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
 gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgctt cattctatgt 180
 ctaatatatt ctcaatcaaa taaggtttagc ataatcagga aatcgaccaa ataccaatat 240
 aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
 <211> 126
 <212> DNA
 <213> Homo sapien

<400> 157
 acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
 gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtctgaggga tatctgtccc 120
 cttagt 126

<210> 158
 <211> 442
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(442)
 <223> n = A,T,C or G

<400> 158
 acccactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
 aanccagcag gctgccccta gtcagtcctt ccttcagag aaaaagagat ttgagaaagt 120
 gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatattt 180
 ctggtggttc tgacaaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240
 natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
 ccaaccctgt tttcccagtc cagctagaca gattcacagt gcggaattct ggaagctgga 360
 nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
 tgttcattct ctgatgtcct gt 442

<210> 159
 <211> 498
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 159

acttccaggt aacgttggtg tttccgttga gcctgaactg atgggtgacg ttgtaggttc	60
tccaacaaga actgaggttg cagagcgggt agggagaggt gctgttccag ttgcacctgg	120
gctgctgtgg actgttggtg attcctcact acggcccaag gttgtggaac tggcanaaag	180
gtgtgttggt gganttgagc tcgggcggct gtggtaggtt gtgggtctt caacaggggc	240
tgctgtggtg ccgggangtg aangtggtgt gtcacttgag cttggccagc tctggaaagt	300
antanattct tctgaaggc cagcgttgt ggagctggca ngggtcantg ttgtgtgtaa	360
cgaaccagtg ctgctgtggg tgggtgtana tctccacaa agcctgaagt tatggtgtcn	420
tcaggtaana atgtggttc agtgtccctg ggcnctgtg gaaggttgta nattgtcacc	480
aagggaataa gctgtggt	498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc agcttcccctg ccaaactcac aaggagacat caacctctag acagggaaac	60
agcttcagga tacttccagg agacagagcc accagcagca aaacaaatat tcccatgcct	120
ggagcatggc atagaggaag ctganaaatg tggggtctga ggaagccatt tgagtctggc	180
cactagacat ctcatcagcc acttgtgtga agagatgcc catgaccca gatgcctctc	240
ccacccttac ctccatctca cacacttgag ctttccactc tgtataattc taacatcctg	300
gagaaaaatg gcagtttgac cgaacctgtt cacaacggtg gaggtgatt tctaacgaaa	360
cttgtagaat gaagcctgga	380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc ccctctgagc aggcggttgt cgttcaaggt gtattttggc ttgcctgtca	60
cactgtccac tggccctta tccacttggt gcttaatccc tcgaaagagc atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa	60
gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt	120

tggtgatata taacttggca ataaccagct ctggtgatac ataaaactac tcactgt 177

<210> 163
<211> 137
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(137)
<223> n = A,T,C or G

<400> 163
catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
catcagcggc atgatgt 137

<210> 164
<211> 469
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(469)
<223> n = A,T,C or G

<400> 164
cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
tgcaatgcat catgctattt catacctaata gagggagtgc caggagattc aaccaggaaa 120
tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
gagacatgca cttgctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
tctagtaggc acagggtccc caggccaggc ctcattctcc tctggcctct aatagtcaat 420
gattgtgtag ccatgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
<211> 195
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(195)
<223> n = A,T,C or G

<400> 165
acagtttttt atanatatcg acattgccgg cacttgtggt cagtttcata aagctgggtg 60
atccgctgtc atccactatt ccttggctag agtaaaaatt attcttatag ccatgtccc 120
tgacggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
tcctctgaga tgagt 195

<210> 166

```
<220>  
<221> misc_feature  
<222> (1)...(383)  
<223> n = A,T,C or G
```

```
<210> 167
<211> 247
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(247)  
<223> n = A,T,C or G
```

```
<210> 168
<211> 273
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(273)  
<223> n = A,T,C or G
```

<210> 169
<211> 431

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

<400> 169

acagccttgg	cttcccaaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	agggtcaaa	gatgtgacat	caacagtttc	tggtttcaga	acaggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacaggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tcactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170
<211> 266
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(266)
<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgccctgtgc	ggctgctgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171
<211> 1248
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1248)
<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcaact	cgagccctg	gcaggcggca	60
ctggctcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcatccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccagg	agccagatgg	tggaggccag	cctctccgta	240
cggcacccag	agtacaacag	acccttgctc	gctaacgacc	tcagtctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaaact	cttgccctcgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480

```

ccgctgtacc accccagcat gttctgcgcc ggcgaggaggc aagaccagaa ggactcctgc 540
aacggtgact ctgggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtct acaccaacct ctgcaaattc 660
actgagtgga tagagaaaac cgtccaggcc agttaactct ggggactggg aacccatgaa 720
attgaccccc aaatacatcc tgcggaagga attcaggaat atctgttccc agccccctcct 780
ccctcaggcc caggagtcca ggccccccagc ccctcctccc tcaaaccaag ggtacagatc 840
cccagcccct cctccctcag acccaggagt ccagaccccc cagccccctcc tccctcagac 900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc 960
ctcagaccca ggggtccagg cccccaaccc ctccctccctc agactcagag gtccaagccc 1020
ccaaccntc attccccaga cccagaggtc cagggtcccag cccctcntcc ctcagaccca 1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttgtggc acgttgaccc 1140
aaccttacca gttgggtttt catttttngt ccctttcccc tagatccaga aataaagttt 1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1248

```

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172

```

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1          5          10          15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
          20          25          30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
          35          40          45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
          50          55          60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
          65          70          75          80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
          85          90          95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
          100          105          110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
          115          120          125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
          130          135          140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          145          150          155

```

<210> 173

<211> 1265

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1265)

CCDS:10630.1-10630.1


```

aaaaatccaa gtataagtgg acttgtgcat tcaaaccagg gttgttcaag ggtaactgt 1080
gtaccagag ggaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt 1200
gggagggcag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatgggtggc aggcgcctgt 1320
aatcccagct acttggggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatt gaaaacgaat tgttctgctc gggcgctcctg 60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggg ggaggccagc 180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc 240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 300
tgccctaccg cggggaaactc ttgcctcgtt tctggctggg gtctgctggc gaacggcaga 360
atgcctaccg tgetgcactg cgtgaacgtg tcggtgggtg ctgaggangt ctgcagtaag 420
ctctatgacc cgctgtacca ccccagcatg ttctgcgccg gcggaggggc agaccagaag 480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc 600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttaaactctg gggactggga 660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca 720
gcccctctc cctcaggccc aggagtcag gcccccagcc cctcctcctt caaaccaagg 780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagacccccc agcccctcnt 840
ccntcagacc caggagtcca gcccctctc cntcagaagc aggagtcag acccccagc 900
ccntentccg tcagaccagc ggggtgcagg ccccaacccc tcntcentca gagtccagag 960
tccaagcccc caaccctcg tccccagac ccagaggtnc aggtcccagc cctcctccc 1020
tcagaccagc cgggtccaatg ccacctagan tntccctgta cacagtgcgc ccttgtggca 1080
ngttgaccca accttaccag ttggtttttc attttttgtc cctttcccct agatccagaa 1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15

```

102901135220

<223> Xaa = Any Amino Acid

[illegible]

<213> Homo sapien

cttgagtgcc	ttggtgtttc	aagccctgc	aggaagcaga	atgcaccttc	tgaggcacct	60
ccagctgcc	ccggccgggg	gatgcgaggc	tcggagcacc	cttgcccggc	tgtgattgct	120
gccaggcact	gttcattctc	gcttttctgt	ccctttgctc	ccgccaagcg	ctctgctga	180
aagttcatat	ctggagcctg	atgtcttaac	gaataaagg	cccattgctc	acccgaaaaa	240
aaaaaaaaaa						250

<213> Homo sapien

```
actagtccag tgtggtgga ttcattgtg ttgggccaa cacaatggct acctttaaca 60
tcaccagac ccgcccctg ccgctgcc cgcgtctgc taacgacagt atgatgctta 120
ctctgtact cggaactat tttatgtaa ttaatgtat ctttcttgt tataaatgcc 180
tgatttaaaa aaaaaaaaaa aa 202
```


<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccytttgkt naggttttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgttttagg cagtgcctagt aatttcytcg taatgattct gttattactt tcctnattct 120
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240
 aaattatgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaac 300
 ctactctgtt ccttggtctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatatg tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggwttk grggatgcta agsccccrga rwtggtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtcgmgtg gcacccctgg 120
 cstcacacag astcccaggt agctgggact acaggcacac agtcactgaa gcaggccctg 180
 ttwgaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggtt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg tttaatgttg tacgcatara 420
 awtgstgata aaattaaaat gttctggtty mactttaaaa aaaaaaaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 183
 aggcgggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120
 ggtgcagcc tgaccgccac tctcacattt gggctcttcg ctggccttgg tggagctgg 180
 gccagacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240
 tgtaatacct gccagtcttt ctctcaagc cagggtgcat cctcagaaac ctactcaaca 300
 cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360

gccatttcaa aaaaaaaaaa aaaa

384

<210> 184
 <211> 496
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(496)
 <223> n = A,T,C or G

<400> 184
 accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatkac ctcaacgagc 60
 agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
 aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240
 tgatgtcttt tctgccacct gttacccttc ggagactccg taaccaaact ctteggactg 300
 tgagccctga tgcccttttt ccagccatac tctttggcat ccagtctctc gtggcgattg 360
 attatgcttg tgtgaggcaa tcatggtggc atcaccata aagggaacac atttgacttt 420
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
 taaaaaaaaa aaaaaa 496

<210> 185
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 185
 gctggtagcc tatggcgkkg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
 caagtatcyt ggcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
 gggcacaccc tcttggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
 tgggtgctgt cctcgtcatc ttctgtctcg tggccaacat cctgctggtc aacttgctca 300
 ttgccatgtt cagttacaca ttcggaagag tacagggcaa cagcgatctc tactgggaag 360
 gcgcagcgtt accgcctcat ccgg 384

<210> 186
 <211> 577
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = A,T,C or G

<400> 186
 gagtttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctcg ttcataaccgc 60
 tnccatcgtc atactgtagg tttgccacca cytcctggca tcttggggcg gentaatatt 120
 ccaggaaact ctcaatcaag tcaccgtcga tgaaacctgt gggctggttc tgtcttccgc 180
 tcggtgtgaa aggatctccc agaaggagtg ctcgatcttc cccacacttt tgatgacttt 240
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
 cagccctatc atgccgttga mcgtgccgaa garcaccgag ctttgtgtgg gggkkgaggt 360

T00290715500

```
ctcaccacaga ttctgcatta ccagagagcc gtggcaaaag acattgacaa actcgcccag 420
gtggaaaaag amcamctcct ggargtgctn gccgctcctc gtcmgttggt ggcagcgctw 480
tccttttgac acacaaacaa gttaaaggca ttttcagccc ccagaaantt gtcacatcc 540
aagatntcgc acagcactna tccagttggg attaaat 577
```

<210> 187

<211> 534

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(534)

<223> n = A,T,C or G

<400> 187

```
aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycatw 60
actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaaat atgcaacact 120
ttaaacagtg tgtcaatctg ctcccyynac tttgtcatca ccagtctggg aakaagggtta 180
tgccctattc acacctgtta aaagggcgct aagcattttt gattcaacat cttttttttt 240
gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgtaggcca attcactttc 300
ttcatgggac agagccatyt gatttaaaaa gcaaattgca taatattgag ctygggagc 360
tgatatttga gcggaagagt agcctttcta cttcaccaga cacaactccc tttcatattg 420
ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa tctgttctg 480
aggatctccc agtttattta ccacttgcac aagaaggcgt tttcttctc aggc 534
```

<210> 188

<211> 761

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(761)

<223> n = A,T,C or G

<400> 188

```
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatth ttgtgtgcgtg 60
tgtgtgtgcg cgcataattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
cctcttttgt atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
ttgtcttctg tgtaaaggtg actagagaaa acacctatnt tatgagtcaa tctagttngt 240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctggtgaga arttgcataa 360
acagaaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtktt wttctccctt 420
gcaaaaaaca tgtaacngact tcccgttgag taatgccaag ttgttttttt tatnataaaa 480
cttgcccttc attacatggt tnaaagtggg gtggtgggccc aaaatattga aatgatggaa 540
ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaatata ctttgaacta 660
tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
gaaaaataata acattgaaga aaaananaaa aaanaaaaaa a 761
```

<210> 189

<211> 482

<212> DNA

CCGCCTTTTCTG

gagggattga	aggtctgttc	tastgtcggm	ctgttcagcc	accaactcta	acaagttgct	60
gtcttccact	cactgtctgt	aagcttttta	acccagacwg	tatcttcata	aatagaacaa	120
attctctacc	agtcacatct	tctaggcaac	ttttggattc	agttagtata	agctcttcca	180
cttctctttt	taagacttca	tctggttaag	tcttaagttt	tgtagaaagg	aattyaattg	240
ctcgttctct	aacaatgtcc	tctctctgaa	qtatttggct	gaacaaccca	cctaaagtcc	300

```

ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc 360
aagagtcatac tgtctgcaaa agttgcgta gtatatctgc ca 402

```

```

<210> 192
<211> 601
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

```

```

<400> 192
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact 60
ggctaccccc acatgggagc agcatgccgt agntatataa ggctattccc tgagtcagac 120
atgcytyttt gaytacggtg tgccaagtgc tggtgattct yaacacacyt ccatcccggt 180
cttttgtgga aaaactggca cttktctgga actagcarga catcacttac aaattcacc 240
acgagacact tgaaagggtg aacaaagcga ytcttgcat gctttttgtc cctccggcac 300
cagttgtcaa tactaaccgc ctggtttgcc tccatcacat ttgtgatctg tagctctgga 360
tacatctcct gacagtactg aagaacttct tcttttggtt caaaagcacc tcttggtgcc 420
tgttggatca gggtcccat tcccagtcyg aatgttcaca tggcatattt wacttcccac 480
aaaacattgc gatttgaggc tcagcaacag caaatcctgt tccggcattg gctgcaagag 540
cctcgatgta gccggccagc gccaaaggcag gcgccgtgag cccaccagc agcagaagca 600
g 601

```

```

<210> 193
<211> 608
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(608)
<223> n = A,T,C or G

```

```

<400> 193
atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggctact 60
ggctccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcytt 120
cccaacgcag gcagmagcgg gscgggtcaa tgaactccay tcgtggcttg gggtkgacgg 180
tkaagtgcag gaagagggtg accacctgcg ggtccaccag gatgcccgac tgtgcgggac 240
ctgcagcgaa actcctcgat ggtcatgagc gggaagcgaa tgaggcccag ggccttgccc 300
agaaccttcc gctgtttctc tggcgtcacc tgcagctgct gccgctgaca ctccggcctc 360
gaccagcgga caaacggcrt tgaacagccg cacctcacgg atgccagtg tgcgcgctc 420
caggammgsc accagcgtgt ccaggtcaat gtcggtgaag ccctccgcgg gtrattggcgt 480
ctgcagtgtt tttgtcgatg ttctccaggc acaggtggc cagctgcggt tcacgaaga 540
gtcgcgcctg cgtgagcagc atgaaggcgt tgcgcgctcg cagttcttct tcaggaaactc 600
cacgcaat 608

```

```

<210> 194
<211> 392
<212> DNA
<213> Homo sapien

```

T06230-1.050300

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 194
 gaacggctgg accttgccctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt 60
 ccagtccgag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccttcccc 120
 tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg 180
 tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac 240
 aacaacaaca aaataacatg tttgcctgtt aagtgtata aaagtaggtg attctgtatt 300
 taaagaaaat attactgtta catatactgc ttgcaatttc tgtatttatt gktnctstgg 360
 aaataaatat agttatttaa ggtgtcant cc 392

<210> 195
 <211> 502
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(502)
 <223> n = A,T,C or G

<400> 195
 ccsttkgagg ggtkaggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg 60
 ccgagctgag gcagatgttc ccacagtgc cccagagcc stgggstata gtytctgacc 120
 cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc 180
 aagggaaggc cccattccgg ggstgttccc cgaggaggaa gggaaggggc tctgtgtgcc 240
 ccccasgagg aagaggccct gagtcctggg atcagacacc ccttcacgtg tatccccaca 300
 caaatgcaag ctcaccaagg tccccctca gtcccccttc stacacctg amcggccact 360
 gscscacacc caccagagc acgccaccgc ccatggggar tgtgtcaag gartcgcnng 420
 gcarcgtgga catctngtcc cagaagggg cagaatctcc aatagangga ctgarcnstt 480
 gctnanaaaa aaaaanaaaa aa 502

<210> 196
 <211> 665
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(665)
 <223> n = A,T,C or G

<400> 196
 ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
 cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt 120
 wagctgtttk gagttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga 180
 actwatttat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkatc 240
 aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt 300
 attaatcggc aaaatgtgga gtgtatgttc ttttcacagt aatatatgcc ttttgaact 360
 tcacttgggtt attttattgt aaatgartta caaaattctt aatttaagar aatggtatgt 420
 watattttatt tcattaattt ctttcctkgt ttacgtwaat tttgaaaaga wtgcatgatt 480

```
<210> 197
<211> 492
<212> DNA
<213> Homo sapien
```

<400> 197

```
<210> 198
<211> 478
<212> DNA
<213> Homo sapien
```

<400> 198

```
<210> 199
<211> 482
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(482)
```


<220>
 <221> misc_feature
 <222> (1)...(509)
 <223> n = A,T,C or G

<400> 202

tttntttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
tggcacttaa	tccattttta	tttcaaaatg	tctacaaant	ttnaatncnc	cattatacng	120
gtnattttnc	aaaatctaaa	nnttattcaa	atnfnagcca	aantccttac	ncaaatnnaa	180
tacncncaaa	aatcaaaaat	atacntntct	ttcagcaaac	ttngttacat	aaattaaana	240
aatatatacg	gctgggtgtt	tcaaagtaca	attatcttaa	cactgcaaac	atnttttnna	300
ggaactaaaa	taaaaaaaaa	cactnccgca	aagggttaaag	ggaacaacaa	attcntttta	360
caacancnnc	nattataaaa	atcatacttc	aaatcttagg	ggaatatata	cttcacacng	420
ggatcttaac	ttttactnca	ctttgtttat	ttttttanaa	ccattgtntt	gggcccaaca	480
caatggnaat	nccnccnnc	tggactagt				509

<210> 203
 <211> 583
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(583)
 <223> n = A,T,C or G

<400> 203

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaaac	tgccataaag	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaaa	tatctaattc	ttccattttt	tcctatttcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tattttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaag	aaggcttaga	tccttttatg	480
tccattttag	tacttaaacg	atatchnaag	tgccagaatg	caaaagggtt	gtgaacattt	540
attcaaaagc	taatataaga	tattttcacat	actcatcttt	ctg		583

<210> 204
 <211> 589
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(589)
 <223> n = A,T,C or G

<400> 204

ttttttttnt	tttttttttt	ttttttntct	ttcttttttt	ttganaatga	ggatcgagtt	60
tttactcttc	tagatagggc	atgaagaaaa	ctcatctttc	cagcttttaa	ataacaatca	120
aatctcttat	gctatatcat	atttttaagt	aaactaatga	gtcactggct	tatctttctc	180
tgaaggaaat	ctgttcattc	ttctcattca	tatagttata	tcaagtacta	ccttgcatat	240
tgagagggtt	ttctttctta	tttacacata	tattttccatg	tgaatttgta	tcaaaccttt	300

```

attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag 360
cattacaaaa ctgctcaaat tgtttgtaa gnttatccat tataattagt tnggcaggag 420
ctaatacaaa tcacatttac ngacnagcaa taataaaact gaagtaccag ttaaatatcc 480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcact ttacaagcat 540
ttattnagaa tgaattcaca tgttattatt ccntagccca acacaatgg 589

```

```

<210> 205
<211> 545
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(545)
<223> n = A,T,C or G

```

```

<400> 205
ttttnttttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60
agaaaagtgc cttacattta ataaaagttt gtttctcaaa gtgatcagag gaattagata 120
tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
atgggggtgc actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360
tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
aaggggcnga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
aaggattaga tatgtttcct ttgccaatat taaaaaaata ataatgttta ctactagtga 540
aacc 545

```

```

<210> 206
<211> 487
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(487)
<223> n = A,T,C or G

```

```

<400> 206
tttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60
catttattag ctctgcaact tacatattta aattaaagaa acgttnttag acaactgtna 120
caatttataa atgtaagggt ccattattga gtanatatat tcctccaaga gtggatgtgt 180
cccttctccc accaactaat gaancagcaa cattagttta attttattag tagatnatac 240
actgctgcaa acgctaattc tcttctecat ccccatgtng atattgtgta tatgtgtgag 300
ttggttnagaa tgcatcanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cggtggcaag 420
aactcttcga accgcttcct caaaggcngc tgccacattt gtggcntctn ttgcacttgt 480
ttcaaaa 487

```

```

<210> 207
<211> 332
<212> DNA
<213> Homo sapien

```

<400> 207

```
<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G
```

<400> 208

```
<210> 209
<211> 159
<212> DNA
<213> Homo sapien
```

<400> 209

```
<210> 210
<211> 256
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(256)  
<223> n = A,T,C or G
```

```

<400> 210
actccctggc agacaaaggc agaggagaga gctctgttag ttctgtgttg ttgaactgcc      60
actgaatttc tttccacttg gactattaca tgccanttga gggactaatg gaaaaacgta      120
tggggagatt ttanccaatt tangtntgta aatggggaga ctggggcagg cgggagagat      180
ttgcagggtg naaatggan ggctggtttg ttanatgaac agggacatag gaggtaggca      240
ccaggatgct aaatca                                         256

```

```

<210> 211
<211> 264
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(264)
<223> n = A,T,C or G

```

```

<400> 211
acattgtttt tttgagataa agcattgaga gagctctcct taacgtgaca caatggaagg      60
actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt      120
atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga      180
ggggagatac attcngaaag aggactgaaa gaaatactca agtnggaaaa cagaaaaaga      240
aaaaaaggag caaatgagaa gcct                                         264

```

```

<210> 212
<211> 328
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 212
acccaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa      60
ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag      120
gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag      180
ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta      240
cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag cttggccaca      300
tttttttttc ctttattcct ttgtcaga                                         328

```

```

<210> 213
<211> 250
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(250)
<223> n = A,T,C or G

```

```

<400> 213
acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt      60

```

```

taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcc aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatata tctctnacct 240
tctcatcggt 250

```

```

<210> 214
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 214
accagaatc caatgctgaa tatttggtt cattattccc agattctttg attgtcaaag 60
gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
tttatatatg cagcaacaat attcaagcgc gacaacaggt tattgaactt gcccgcaggt 180
tgaatttcat tccattgac ttgggatcct tatcatcagc canagagatt gaaaatttac 240
ccctacgact ctttactctc tggagagggc cagtgggtgt agctataagc ttggccacat 300
ttttttttcc tttattcctt tgtcagagat gcgattcatc catatgctan aaaccaacag 360
agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
actttgctct ccctaataata cctc 444

```

```

<210> 215
<211> 366
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(366)
<223> n = A,T,C or G

```

```

<400> 215
acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
cattatgcc aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
tctcatcggt aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaatc tcctatactt 360
ggtgcc 366

```

```

<210> 216
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```



```
<210> 221
<211> 167
<212> DNA
<213> Homo sapien
```

```

<400> 221
actangtgca ggtgcgcac aatatttgtc gatattccct tcatcttgga ttccatgagg      60
tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc      120
ccccactac cttccctgac gctcccana aatcacccaa cctctgtt      167

```

<400>	222					
agggcggtggt	gcggaggggcg	gtactgacct	cattagtagg	aggatgcatt	ctggcacccc	60
gttcttcacc	tgtcccccaa	tccttaaaaag	gccatactgc	ataaagtcaa	caacagataa	120
atgtttgctg	aattaaagga	tggatgaaaa	aaattaataa	tgaatttttg	cataatccaa	180
ttttctcttt	tataatttcta	gaagaagttt	ctttgagcct	attagatccc	gggaatcttt	240
taggtgagca	tgattagaga	gcttgtaggt	tgcttttaca	tatatctggc	atatttgagt	300
ctcgtatcaa	aacaatagat	tggtaaaggt	ggtattattg	tattgataag	t	351

<400>	223						
aaaacaaaaca	aacaaaaaaa	acaattcttc	attcagaaaa	attatcttag	ggactgatat		60
tggttaattat	ggtcaattta	atwrttrtkt	ggggcatttc	cttacattgt	cttgacaaga		120
ttaaaaatgtc	tgtgccaaaa	ttttgtattt	tatttgga	cttcttatca	aaagtaatgc		180
tgccaaagga	agtctaagga	attagtagtg	ttccmctcac	ttgtttggag	tgtgctattc		240
taaaagattt	tgatttcctg	gaatgacaat	tatattttaa	ctttgggtgg	ggaaanagtt		300
ataggaccac	agtcttcact	tctgatactt	gtaaattaat	cttttattgc	acttgttttg		360
accattaagc	tatatgttta	aaa					383

<210>	224
<211>	320
<212>	DNA

<213> Homo sapien

<400> 224

ccccctgaagg	cttcttggtta	gaaaatagta	cagttacaac	caataggaac	aacaaaaaga	60
aaaagtttgt	gacattgtag	tagggagtgt	gtaccctta	ctcccatca	aaaaaaaaat	120
ggatacatgg	ttaaaggata	raagggaat	attttatcat	atgttctaaa	agagaaggaa	180
gagaaaatac	tactttctcr	aaatggaagc	ccttaaagggt	gctttgatac	tgaaggacac	240
aaatgtggcc	gtccatcctc	ctttaragtt	gcatgacttg	gacacggtaa	ctgttgagc	300
tttaractcm	gcattgtgac					320

<210> 225

<211> 1214

<212> DNA

<213> Homo sapien

<400> 225

gaggactgca	gcccgcactc	gcagccctgg	caggcgccac	tggatcatgga	aaacgaattg	60
ttctgctcgg	gcgtcctggt	gcacccgcag	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatgggtg	aggccagcct	ctccgtacgg	caccagaggt	acaacagacc	cttgctcgct	240
aacgacctca	tgctcatcaa	gttgagcga	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	gggtggtgtc	420
gaggaggtct	gcagtaagct	ctatgacccg	ctgtaccacc	ccagcatggt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	ggggggccct	gatctgcaac	540
gggtacttgc	agggccttgt	gtctttcggg	aaagcccggt	gtggccaagt	tggcgtgcc	600
ggtgtctaca	ccaacctctg	caaattcact	gagtgatag	agaaaaccgt	ccaggccagt	660
taactctggg	gactgggaac	ccatgaaatt	gaccccaaaa	tacatcctgc	ggaaggaatt	720
caggaatata	tggtcccagc	ccctcctccc	tcaggcccgag	gagtcagggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccctcctc	ccctcagacc	caggagtcca	840
gacccccag	ccctcctccc	ctcagaccca	ggagtccagc	ccctcctccc	tcagaccag	900
gagtcagac	ccccagcccc	ctcctccctc	agaccagggg	gtccagggcc	ccaaccctc	960
ctccctcaga	ctcagaggtc	caagccccc	acccctcctt	ccccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcg	gtccaatgcc	acctagactc	tcctgtaca	1080
cagtgcctcc	ttgtggcacg	ttgaccaaac	cttaccagtt	ggtttttcat	ttttgtccc	1140
tttcccctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<210> 226

<211> 119

<212> DNA

<213> Homo sapien

<400> 226

accagtatg	tgcagggaga	cggaacccca	tgtgacagcc	cactccacca	gggttcccaa	60
agaacctggc	ccagtcataa	tcattcatcc	tgacagtggc	aataatcacg	ataaccagt	119

<210> 227

<211> 818

<212> DNA

<213> Homo sapien

<400> 227

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctccc	ccagccctga	60
------------	------------	------------	------------	-------------	------------	----

tttttgctac	atatgggggtc	cctttttcatt	ctttgcaaaa	acactggggtt	ttctgagaac	120
acggacgggtt	cttagcacaa	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aatttttcctc	ctctggagga	aagggtgggtga	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgtcccc	ttccaatcag	ccacttctga	gaacccccat	ctaacttcct	actgaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcgtt	tccagagaca	480
acctgctggc	tgtcttggga	tgcgcccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcagtagagg	600
gacaggctct	gccctcaagc	cggctgaggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaggata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780
gtccacttct	aggttttcag	cctagatggg	agtcgtgt			818

<210> 228

<211> 744

<212> DNA

<213> Homo sapien

<400> 228

actggagaca	ctgttgaact	tgatcaagac	ccagaccacc	ccaggctctcc	ttcgtgggat	60
gtcatgacgt	ttgacatacc	tttggaaacga	gcctcctcct	tggagatgg	aagaccgtgt	120
tctgtggcga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcaactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtc	acctctgcag	360
gctggcagct	gaatggcttg	ccggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacgggtg	ttggccactc	ccttctaata	cacaggcgcc	ctcctgggtga	cagtgacctg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttctg	taatgttctc	ctgtgttgtc	agctgtcttc	atttctctgg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cacttttctt	720
cttcaactctg	aagtagctgg	tggt				744

<210> 229

<211> 300

<212> DNA

<213> Homo sapien

<400> 229

cgagtctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcagtgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgg	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagct	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggct	ctatttttcc	acctgcagag	gatccagctc	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<210> 230

<211> 301

<212> DNA

<213> Homo sapien

<400> 230

cagcagaaca	aatacaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120

caatataaag tcctggttca cactcaggaa cgagagctga cccagttaag ggagaagttg 180
 cggaagggga gagatgcctc cctctcattg aatgagcatc tccaggccct cctcactccg 240
 gatgaaccgg acaagtccca ggggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300
 g 301

<210> 231
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
 gcaagcacgc tggcaaactc ctgtcaggtc agctccagag aagccattag tcatttttagc 60
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
 ggcaacacgg gactttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtg ccgccaatga tgaacacatt 240
 tttttttgtg gacatgccat ccatttctgt caggatctgg ttgatgactc ggtcagcagc 300
 c 301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232
 agtaggtatt tcgtgagaag ttcaacacca aaactggaac atagttctcc ttcaagtgtt 60
 ggcgacagcg gggcttctg attctggaat ataactttgt gtaaattaac agccacctat 120
 agaagagtc atctgctgtg aaggagagac agagaactct gggttccgtc gtctgttcca 180
 cgtgctgtac caagtgtgg tgccagcctg ttacctgttc tcaactgaaa tctggctaatt 240
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
 g 301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
 atgctaaggc cccagagatc gtttgatcca accctcttat ttccagaggg gaaaatgggg 120
 cctagaagtt acagagcatc tagctggtgc gctggcacc cctggcctcac acagactccc 180
 gactgactgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgcg 240
 tacaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
 c 301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
 cgcctcatga cagcaagttc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240

ttgatcacca gcttaatggc cagatcatct gcttcaatgg cttcgtcagt atagttcttc 300
t 301

<210> 235
<211> 283
<212> DNA
<213> Homo sapien

<400> 235
tggggctgtg catcaggcgg gtttgagaaa tattcaattc tcagcagaag ccagaatttg 60
aattccctca tcttttaggg aatcatttac caggtttgga gaggattcag acagctcagg 120
tgctttcact aatgtctctg aacttctgtc cctctttgtt catggatagt ccaataaata 180
atgttatctt tgaactgatg ctcataggag agaataaag aactctgagt gatatacaaca 240
ttagggattc aaagaaatat tagatttaag ctcacactgg tca 283

<210> 236
<211> 301
<212> DNA
<213> Homo sapien

<400> 236
aggtcctcca ccaactgcct gaagcacggc taaaattggg aagaagtata gtgcagcata 60
aatactttta aatcgatcag atttccctaa cccacatgca atcttcttca ccagaagagg 120
tcggagcagc atcattaata ccaagcagaa tgcgtaatag ataaatacaa tggatatatag 180
tgggtagacg gcttcatgag tacagtgtac tgtggtatcg taatctggac ttgggttgta 240
aagcatcgtg taccagtcag aaagcatcaa tactcgacat gaacgaatat aaagaacacc 300
a 301

<210> 237
<211> 301
<212> DNA
<213> Homo sapien

<400> 237
cagtggtagt ggtgggtggc gtggcggttg tcgtgggtgcc ttttttggtg cccgtcacaa 60
actcaatttt tgctcgctcc tttttggcct tttccaattt gtccatctca attttctggg 120
ccttggctaa tgcctcatag taggagtcct cagaccagcc atggggatca aacatatcct 180
ttgggtagtt ggtgccaagc tcgtcaatgg cacagaatgg atcagcttct cgtaaatacta 240
gggttccgaa attctttctt cctttggata atgtagttca tatccattcc ctccctttatc 300
t 301

<210> 238
<211> 301
<212> DNA
<213> Homo sapien

<400> 238
gggcaggttt tttttttttt ttttttgatg gtgcagaccc ttgctttatt tgtctgactt 60
gttcacagtt cagccccctg ctccagaaac caacgggcca gctaaggaga ggaggaggca 120
ccttgagact tccggagtcg aggctctcca gggttcccca gcccatcaat cattttctgc 180
acccctgcc tgggaagcag ctccctgggg ggtgggaatg ggtgactaga agggatttca 240
gtgtgggacc cagggtctgt tcttcacagt aggaggtgga agggatgact aatttcttta 300
t 301

TTGGGCTGTG CATCAGGC GG GTTTGAGAAA TATTCAATTC TCAGCAGAAG CCAGAATT TG

<400> 239

<400> 240

<400> 241

<400> 242

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<210> 243
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 243
 aggtaagtcc cagtttgaag ctcaaaagat ctggtatgag cataggctca tcgacgacat 60
 ggtggcccaa gctatgaaat cagagggagg cttcatctgg gcctgtaaaa actatgatgg 120
 tgacgtgcag tcggactctg tggcccaagg gtatggctct ctcggcata tgaccagcgt 180
 gctggtttgt ccagatggca agacagtaga agcagaggct gccacggga ctgtaacccg 240
 tcactaccgc atgttccaga aaggacagga gacgtccacc aatcccattg cttccatttt 300
 t 301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccagggacct tggaaacagt tgacactgta aggtgcttgc tccccaagac acatcctaaa 180
 aggtgtttgta atggtgaaaa cgtcttcctt ctttattgcc cttctttatt tatgtgaaca 240
 actgtttgtc ttttgtgtat cttttttaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tccccaacca atgttagaaa agaaagagg 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaaagacc taatttctaa agcaattctt tataattttac aaagttttaa 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcctg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt attttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgcttctt gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtca tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt cccccacgct 120

gtgtcctgtg ttcagggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
 ccttgatgat caagggttggg gcttaagtgg attaaggagg gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
 a 301

<210> 248
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 248
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt 120
 acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
 c 301

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249
 gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
 ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgcgc 120
 ccagggagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc 180
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
 a 301

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc 60
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
 ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
 caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
 a 301

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251
 gccgaggtcc tacatttggc ccagtttccc cctgcacccct ctccagggcc cctgcctcat 60
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
 cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgga 240

```
<210> 252
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 253
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 254
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 255
<211> 302
<212> DNA
<213> Homo sapien
```

<400> 255						
agcttttttt	tttttttttt	tttttttttt	ttcattaaaa	aatagtgtct	tttattataa	60
attactgaaa	tgtttctttt	ctgaatataa	atataaatat	gtgcaaagtt	tgacttggat	120
tgggattttg	ttgagttctt	caagcatctc	ctaataccct	caagggcctg	agtagggggg	180
aggaaaaagg	actggaggtg	gaatctttat	aaaaacaag	agtgattgag	gcagattgta	240
aacattatta	aaaaacaaga	aacaaacaaa	aaaatagaga	aaaaaaccac	cccaacacac	300
aa						302

<210> 256
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 256
 gttccagaaa acattgaagg tggtctccca aagtctaact agggataccc cctctagcct 60
 aggacctcc tccccacacc tcaatccacc aaaccatcca taatgcaccc agataggccc 120
 acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcctctctat 180
 aggcaaatac ctgctggcaa actggcatta cctgggttgt ggggatgggg gggcaagtgt 240
 gtggcctctc ggctgggtta gcaagaacat tcagggttagg cctaagttan tcgtgttagt 300
 t 301

<210> 257
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 257
 gttgtggagg aactctggct tgctcattaa gtcctactga ttttcactat ccctgaatt 60
 tccccactta tttttgtctt tcactatcgc aggccttaga agaggtctac ctgcctccag 120
 tcttacctag tccagtctac ccctggagt tagaatggcc atcctgaagt gaaaagtaat 180
 gtcacattac tcccttcagt gatttcttgt agaagtgcc atccctgaat gccaccaaga 240
 tcttaattct cactcttta atcttatctc tttgactcct ctttacaccg gagaaggctc 300
 c 301

<210> 258
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 258
 cagcagtagt agatgccgta tgccagcacg cccagcactc ccaggatcag caccagcacc 60
 aggggcccag ccaccaggcg cagaagcaag ataaacagta ggctcaagac cagagccacc 120
 cccagggcaa caagaatcca ataccaggac tgggcaaaat cttcaaagat cttaacactg 180
 atgtctcggg cattgaggct gtcaataana cgctgatccc ctgctgtatg gtggtgtcat 240
 tggatgatccc tgggagcgcc ggtggagtaa cgttggtcca tggaaagcag cgcccacaac 300
 t 301

<210> 259
 <211> 301
 <212> DNA
 <213> Homo sapien

TopSeq: H25660

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 259
 tcatatatgc aaacaaatgc agactangcc tcaggcagag actaaaggac atctcttggg 60
 gtgtcctgaa gtgatttggg cccctgaggg cagacaccta agtaggaatc ccagtgggaa 120
 gcaaagccat aaggaagccc aggattcctt gtgatcagga agtgggccag gaaggtctgt 180
 tccagetcac atctcatctg catgcagcac ggaccggatg cgcacctgg gtcttggctt 240
 ccctcccatc ttctcaagca gtgtccttgt tgagccattt gcatccttgg ctccaggtgg 300
 c 301

<210> 260
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 260
 ttttttttct ccctaaggaa aaagaaggaa caagtctcat aaaaccaa at aagcaatggt 60
 aaggtgtctt aacttgaaaa agattaggag tcaactggtt acaagttata attgaatgaa 120
 agaactgtaa cagccacagt tggccatttc atgccaatgg cagcaaaca caggattaac 180
 tagggcaaaa taaataagtg tgtggaagcc ctgataagtg cttataaac agactgattc 240
 actgagacat cagtacctgc ccgggcggcc gctcgagccg aattctgcag atatccatca 300
 c 301

<210> 261
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 261
 aaatattcga gcaaatcctg taactaatgt gtctccataa aaggctttga actcagtga 60
 tctgcttcca tccacgattc tagcaatgac ctctcggaca tcaaagctcc tcttaaggtt 120
 agcaccaact attccatata attcatcagc aggaaataaa ggctcttcag aaggttcaat 180
 ggtgacatcc aatttcttct gataatttag attcctcaca accttcctag ttaagtgaag 240
 ggcatgatga tcatccaaag cccagtggtc acttactcca gactttctgc aatgaagatc 300
 a 301

<210> 262
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 262
 gaggagagcc tgttacagca tttgtaagca cagaatactc caggagtatt tgttaattgtc 60
 tgtgagcttc ttgccgcaag tctctcagaa atttaaaaag atgcaaatcc ctgagtcacc 120
 cctagacttc ctaaaccaga tcctctgggg ctggaacctg gcaactctgca tttgtaatga 180
 gggctttctg gtgcacacct aattttgtgc atctttgccc taaatcctgg attagtcccc 240
 catcattacc cccacattat aatgggatag attcagagca gatactctcc agcaaagaat 300
 c 301

<210> 263

<400> 266						
taccgtctgc	ccttctctccc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actcttttct	ctaccacag	gcttgctatg	agcaagagac	acaactcct	120
ctctttctgtg	ttccagcttc	ttttctctgtt	cttcccaccc	cttaagtttc	attctctggg	180
atagagacac	caatacccat	aacctctctc	ctaagctctc	ttataaccca	gggtgcacag	240
cacagactcc	tgacaacttg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300

301

<400> 267

<210> 268

<211> 301

<212> DNA

<213> Homo sapien

<400> 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttggga	gagctggttc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tccaagagga	agtctaattg	aagtaattag	tcaacggtcc	ttgtttagac	tcttggaaata	180
tgctgggttg	ctcagtgagc	ccttttggag	aaagcaagta	ttattcttaa	ggagtaacca	240
cttcccattg	ttctactttc	taccatcadc	aattgtatat	tatgtattct	ttggagaact	300
a						301

<210> 269

<211> 301

<212> DNA

<213> Homo sapien

<400> 269

taacaatatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagttaaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
ctttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	ccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgcct	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttattttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgctg	gtgcagtgc	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggtc	atcagaagaa	gggtgggtgc	cgatatactg	cactagataa	240
tggaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggcct	aacagaaaaac	300
a						301

<400> 271

<400> 272

<400> 273

```
<210> 274
<211> 301
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274
 cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg 60
 aacagtaaat gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa 120
 tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggtg gaaaagtcca 180
 tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc 240
 aattgtgctt cttttgataa gaagctttct tggcatatc aggaaattcc aganaaagtc 300
 c 301

<210> 275
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 275
 tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg 60
 gggtgaaatt ggccaacttt ctattaactt atgttggaac ttttgccacc aacagtaagc 120
 tggcccttct aataaaagaa aattgaaagg tttctcacta aacggaatta agtagtgag 180
 tcaagagact cccaggcctc agcgtaacctg cccgggcggc cgctcgaagc cgaattctgc 240
 agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat 300
 a 301

<210> 276
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 276
 tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat 60
 ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat 120
 taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc 180
 caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt 240
 aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat 300
 g 301

<210> 277
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 277
 tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag 60
 atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg 120
 gaatcatggc actcctgata ctttcccaaa tcaacactct caatgccccca ccctcgtcct 180
 caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga 240
 gttcncctgc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg 300
 c 301

<210> 278
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tggtattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatgtt ctggcactat tataagtgtc tcacagggtt 240
 tatgtgtttc tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttccagc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaaggtg gtggaaccaa attgtgggtc atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggt gggggttagat taagatctaa attacatcag gacaaagaga 240

cagactatta actccacagt taattaagga ggtatgttcc atgtttatatt gttaaagcag 300
t 301

<210> 281
<211> 301
<212> DNA
<213> Homo sapien

<400> 281
aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
gccgagcaat ccaaattcctg aatgaagggg catcttctga aaaaggagat ctgaatctca 120
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
tgtgtagcac actgcgatta cagctaaata acccgatatt gtgtgtcatg tttgcatttc 240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300
g 301

<210> 282
<211> 301
<212> DNA
<213> Homo sapien

<400> 282
caggctactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca 60
tccagaaccc aaaaattaaag aaattcaaaa agacattttg tgggcacctg ctgacacaga 120
agcgcagaag caaagcccag gcagaacat gctaacctta cagctcagcc tgcacagaag 180
cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg 240
cagaagcaaa gccccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag 300
a 301

<210> 283
<211> 301
<212> DNA
<213> Homo sapien

<400> 283
atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaa gatgcaaaa 60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca 120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc 180
acttcccagg ttttatgcaa aaattttgtt aaattctata atggtgatat gcatctttta 240
ggaaacatat acatttttta aaatctattt tatgtaagaa ctgacagacg aatttgcttt 300
g 301

<210> 284
<211> 301
<212> DNA
<213> Homo sapien

<400> 284
caggtaaaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tatttacttt 60
gcttcgtgtg tgggcaaagc aacatcttcc ctaaataat attaccaaga aaagcaagaa 120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat 180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt 240
actggagtaa aagaaaacaa agttcattga tgtcgaagga tatatacagt gttagaaatt 300
a 301

<400> 285

```
<210> 286
<211> 301
<212> DNA
<213> Homo sapien
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taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaacttttgc	60
tgtatattat	ttttgcctta	cagtggatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccag	taagagatgt	tatatctctt	tctcatttct	tccccaccca	180
aaaataagct	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcacacc	tatattaggc	aaattccatt	ttttcccttg	300
t						301

```
<210> 287
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 287

tacagatctg	ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtagagat	cagatattac	aacagctttg	ttttgagggt	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagtttag	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtggttat	ctcctcccca	gcttggtctg	ctcatgttat	cacagtattc	cattttgttt	240
gttgcattgc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttctctca	ttggtaatgc	300
t						301

```
<210> 288
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 288

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatagg	aagacaaatt	ccagttccag	ctcagtcctgg	gtatctgcaa	agctgcaaaa	120
gattctttaaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatatc	180


```

aaaagcatct gcttttgtga tttaatttag ctcatctggc cactggaaga atccaaacag 240
tctgccttaa ttttgatga atgcatgatg gaaattcaat aatttagaaa gttaaaaaaa 300
a 301

```

```

<210> 289
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 289
ggtacactgt ttccatgcta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatcttg 120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
cgttctataa atgaatgtgc tgaagcaaag tgcccatggg ggcggcgaan aagagaaaaga 240
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
a 301

```

```

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 290
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
tgactgatct gttcatttct ctcacagctc ttaccccaa aagcttttcc accctaagtg 120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
tgccttgaac aaaaacattt ctccatgtct catthttcttc atgcctcaag taacagtga 300
a 301

```

```

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 291
caggtaccaa tttcttctat cctagaaaca tttcatttta tgttggtgaa acataacaac 60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagtccaat 180
agccatggct gtttacttca tttaatttat ttagcataaa gacattatga aaaggcctaa 240
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300
a 301

```

```

<210> 292

```

```
<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G
```

```
<210> 293
<211> 301
<212> DNA
<213> Homo sapien
```

```
<210> 294
<211> 301
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
```

```
<210> 295
<211> 305
<212> DNA
<213> Homo sapien
```


<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299
 gttttgagac ggagttttcac tcttgttgcc cagactggac tgcaatggca gggctctctgc 60
 tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc 120
 tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg 180
 gagttttcgcc atgttggcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct 240
 cggcctccca aagtgctgga attataggca tgagtcaaca cgcccagcct aaagatattt 300
 t 301

<210> 300
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 300
 attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga 60
 tatgtccac accactggg aaaggctccc acctggctac ttctctatc agctgggtca 120
 gctgcattcc acaaggttct cagcctaata agtttacta cctgccagtc tcaaaactta 180
 gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggttac 240
 tataaagcct gcctctaaca gtccttgctt cttcacacca atcccagagc catcccccat 300
 g 301

<210> 301
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 301
 tttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtcctgc 60
 agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagtttgt 120
 gggaaactcac aaagaccctc agagctgaga cccccacaac agtgggagct cacaaagacc 180
 ctgagagctg agacacccac aacagtggga gctcacaaaag accctcagag ctgagacacc 240
 cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt 300
 t 301

<210> 302
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 302
 aggtacacat ttagcttggt gtaaatgact cacaaaactg atttttaaatt caagttaatg 60
 tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac 120
 ttgagtttgt tcttagtatt atttatggta aataggctct taccacttgc aaataactgg 180
 ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca 240
 caggatttga gatgctaagg cccagagat cgtttgatcc aaccctctta ttttcagagg 300
 g 301

<210> 303

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 303
 aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt 60
 atattgtttt ttgacagttt aacacatctt cttctgtcag agattccttc acaatagcac 120
 tggctaattg aactaccgct tgcattgttaa aaatgggtgt ttgtgaaatg atcataggcc 180
 agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc 240
 catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac 300
 c 301

<210> 304
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 304
 acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt 60
 tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc 120
 ctttttagtg tatcatatca ggaatcatct cacattgggt ttgtgccatta ctggtgcagt 180
 gactttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga 240
 ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct 300
 c 301

<210> 305
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 305
 gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag 60
 caggggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggag 120
 taaaggagga gaaacagata caaaatctcc aactcagtat taaggatttc tcatgcctag 180
 aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa 240
 ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag 300
 a 301

<210> 306
 <211> 8
 <212> PRT
 <213> Homo sapien

<400> 306
 Val Leu Gly Trp Val Ala Glu Leu
 1 5

<210> 307
 <211> 637

106250 = 71056660

<212> DNA
<213> Homo sapien

<400> 307

```
acaggggratg aagggaaagg gagaggatga ggaagcccc ctggggattt ggtttggtcc 60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac 120
attgaggaat gatacttgag cccaaagagc attcaatcat tgttttattt gccttmtttt 180
cacaccattg gtgagggagg gattaccacc ctggggttat gaagatgggt gaacaccca 240
cacatagcac cggagatatg agatcaacag tttcttagcc atagagattc acagcccaga 300
gcaggaggac gcttgccacac catgcaggat gacatggggg atgcgctcgg gattgggtgtg 360
aagaagcaag gactgttaga ggcaggcttt atagtaacaa gacgggtggg caaactctga 420
tttccgtggg ggaatgtcat ggtcttgctt tactaagttt tgagactggc aggtagtga 480
actcattagg ctgagaacct tgtggaatgc acttgaccca sctgatagag gaagtagcca 540
ggtgggagcc tttcccagtg ggtgtgggac atatctggca agattttgtg gcactcctgg 600
ttacagatac tggggcagca aataaaaactg aatcttg 637
```

<210> 308
<211> 647
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(647)
<223> n = A,T,C or G

<400> 308

```
acgattttca ttatcatgta aatcgggtca ctcaaggggc caaccacagc tgggagccac 60
tgctcagggg aaggttcata tgggactttc tactgcccc ggttctatac aggatataaa 120
ggngcctcac agtatagatc tggtagcaaa gaagaagaaa caaacactga tctctttctg 180
ccacccctct gacccttttg aactcctctg accctttaga acaagcctac ctaatatctg 240
ctagagaaaa gaccaacaac ggccctcaaag gatctcttac catgaaggtc tcagctaatt 300
cttggttaag atgtgggttc cacattaggt tctgaatatg gggggaaggg tcaatttgct 360
cattttgtgt gtggataaag tcaggatgcc caggggccag agcagggggc tgcttgcttt 420
gggaacaatg gctgagcata taaccatagg ttatggggaa caaaacaaca tcaaagtcac 480
tgtatcaatt gccatgaaga cttgagggac ctgaatctac cgattcatct taaggcagca 540
ggaccagttt gagtggcaac aatgcagcag cagaatcaat ggaaacaaca gaatgattgc 600
aatgtccttt tttttctcct gcttctgact tgataaaagg ggaccgt 647
```

<210> 309
<211> 460
<212> DNA
<213> Homo sapien

<400> 309

```
actttatagt ttaggctgga cattggaaaa aaaaaaagc cagaacaaca tgtgatagat 60
aatatgattg gctgcacact tccagactga tgaatgatga acgtgatgga ctattgtatg 120
gagcacatct tcagcaagag ggggaaatcc tcatcatttt tggccagcag ttgtttgatc 180
accaaaccatc atgccagaat actcagcaaa ccttcttagc tcttgagaag tcaaagtccg 240
ggggaattta ttcctggcaa ttttaatttg actccttatg tgagagcagc ggctaccag 300
ctgggggtggg ggagcgaacc cgtcactagt ggacatgcag tggcagagct cctggttaacc 360
acctagagga atacacaggc acatgtgtga tgccaagcgt gacacctgta gcactcaaat 420
ttgtcttggt tttgtctttc ggtgtgtaag attcttaagt 460
```

<210> 310
 <211> 539
 <212> DNA
 <213> Homo sapien

<400> 310
 acgggactta tcaaataaag ataggaaaag aagaaaactc aaatattata ggcagaaatg 60
 ctaaagggtt taaaatatgt caggattgga agaaggcatg gataaagaac aaagttcagt 120
 taggaaagag aaacacagaa ggaagagaca caataaaagt cattatgtat tctgtgagaa 180
 gtcagacagt aagatttgtg ggaaatgggt tggtttggtg tatggtatgt attttagcaa 240
 taatctttat ggcagagaaa gctaaaatcc tttagcttgc gtgaatgata acttgctgaa 300
 ttctcaagg taggcatgat gaaggagggt ttagaggaga cacagacaca atgaactgac 360
 ctagatagaa agccttagta tactcagcta ggaatagtga ttctgagggc aactgtgac 420
 atgattatgt cattacatgt atggtagtga tgggtagat aggaaggaag aacttatggc 480
 atattttcac cccacaaaa gtcagttaaa tattgggaca ctaaccatcc aggtcaaga 539

<210> 311
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 311
 caaatttgag ccaatgacat agaattttac aaatcaagaa gcttattctg gggccatttc 60
 ttttgacgtt ttctctaaac tactaaagag gcattaatga tccataaatt atattatcta 120
 catttacagc atttaaaatg tggtcagcat gaaatattag ctacagggga agctaaataa 180
 attaaacatg gaataaagat ttgtccttaa atataatcta caagaagact ttgatatttg 240
 tttttcacia gtgaagcatt cttataaagt gtcataacct ttttggggaa actatgggaa 300
 aaaatgggga aactctgaag ggttttaagt atcttacctg aagctacaga ctccataacc 360
 tctctttaca gggagctcct gcagccccta cagaaatgag tggctgagat tcttgattgc 420
 acagcaagag cttctcatct aaaccctttc cctttttagt atctgtgtat caagtataaa 480
 agttctataa actgtagtnt acttatttta atcccaaaag cacagt 526

<210> 312
 <211> 500
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(500)
 <223> n = A,T,C or G

<400> 312
 cctctctctc cccaccccct gactctagag aactggggtt tctcccagta ctccagcaat 60
 tcattttctga aagcagttga gccactttat tccaaagtac actgcagatg ttcaaactct 120
 ccattttctc ttcccttcca cctgccagtt ttgctgactc tcaacttgct atgagtgtaa 180
 gcattaagga cattatgctt cttcgattct gaagacaggc cctgctcatg gatgactctg 240
 gcttcttagg aaaatatttt tcttccaaaa tcagtaggaa atctaaactt atcccctctt 300
 tgcagatgtc tagcagcttc agacatttgg ttaagaacct atgggaaaaa aaaaaatcct 360

```

tgctaattgtg gtttcctttg taaaccanga ttcttatttg nctggtatag aatatcagct 420
ctgaacgtgt ggtaaagatt tttgtgtttg aatataggag aaatcagttt gctgaaaagt 480
tagtcttaat tatctattgg 500

```

<210> 313

<211> 718

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(718)

<223> n = A,T,C or G

<400> 313

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ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc 60
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
ctgctgaaat ggagataatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180
gtagtgcacat gtttttgca atttccagcc cttttaata tccacacaca caggaagcac 240
aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccatcttggg tcatcgatga 300
gcctcgccct gtgctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
ttccttaaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420
agatttgaaa tgaagtcaca aagtgagcat taccaatgag aggaaaacag acgagaaaat 480
cttgatgggt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600
cgttatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg 660
ttcttntggc ccacattttc atnatccacc cntcntttt aannttantic caaantgt 718

```

<210> 314

<211> 358

<212> DNA

<213> Homo sapien

<400> 314

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gtttattttac attacagaaa aaacatcaag acaatgtata ctatttcaaa tatatccata 60
cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120
caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180
gctctcggtg gtccagccac tgtgaaacat gtcctcttta gattaacctc gtggacgctc 240
ttgttgtatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300
tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

```

<210> 315

<211> 341

<212> DNA

<213> Homo sapien

<400> 315

```

taccacctcc ccgctggcac tgatgagccg catcaccatg gtcaccagca ccatgaaggc 60
ataggtgatg atgaggacat ggaatgggcc cccaaggatg gtctgtccaa agaagcgagt 120
gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag cccaatgac 180
agtcaccagc tccccgacca gccggatata gtcccttaggg gtcatgtagg ctctctgaag 240
tagcttctgc tgtaagaggg tgttgtcccg ggggctcgtg cggttatttg tcctgggctt 300
gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

```


<210> 316
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 316
 agactgggca agactcttac gccccacact gcaatttggt cttgttgccg tatccattta 60
 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcagga gctctgggtt caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagt gacctaataa aaatacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcattt atctctggcc ttaaccctgg ctctgagggc tgcggccagc agatcccagg 120
 ccagggctct gttcttgcca cacctgctt a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
 actggtggga ggcgctgttt agttggctgt tttcagaggg gtctttcgga gggacctcct 60
 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggcggt ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat ttagtgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtga tccactagtc cagtgtgggt gaattccatt gtgttggggt tctagatcgc 60
 gagcggctgc cctttttttt tttttttttt ggggggaatt tttttttttt aatagttatt 120
 gagtgttcta cagcttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
agcaactttg tttttcatcc aggttatattt aggccttagga tttcctctca cactgcagtt 60
taggggtggca ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
tgcctctgag aaatcaaagt cttcatacac t 151

<210> 322
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 322
atccagcatc ttctcctggt tcttgccctc ctttttcttc ttcttasatt ctgcttgagg 60
tttgggcttg gtcagtttgc cacagggctt ggagatgggt acagtcttct ggcattcggc 120
attgtgcagg gctcgttca nacttccagt t 151

<210> 323
<211> 151
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(151)
<223> n = A,T,C or G

<400> 323
tgaggacttg tktttctttt ctttatattt aatcctotta ckttgtaaatt atattgccta 60
nagactcant tactacccag tttgtgggtt twtgggagaa atgtaactgg acagttagct 120
gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
<211> 461
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 324
acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gcctacttga 60
agaagtggc agctaaagga atccaggttg ttggttgac tgtaataacc tttgatgaaa 120
agagttacta cgaatcccat cttgggtcca gctatatcac tgacagcatg gtagaagact 180
gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
ctcatacagg gatatacaaaa taccctttgt gctaccacgg ccctggggaa tcaggtgact 300
cacacaaatg caatagttgg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420

461

<400> 325

```
<210> 326
<211> 1215
<212> DNA
<213> Homo sapien
```

<400> 326

```
<210> 327
<211> 220
<212> PRT
<213> Homo sapien
```

<400> 327

Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met
1 5 10 15
Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
20 25 30

Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly
 35 40 45
 Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu
 50 55 60
 Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala
 65 70 75 80
 Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
 85 90 95
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
 100 105 110
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
 115 120 125
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
 180 185 190
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
 195 200 205
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 210 215 220

<210> 328
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 328
 cgctcgtctc tggtagctgc agccaaatca taaacggcga ggactgcagc ccgcactcgc 60
 agccctggca ggcggcactg gtcattgaaa acgaattggt ctgctcgggc gtcctgggtgc 120
 atccgcagtg ggtgctgtca gccacacact gtttccagaa ctctacacc atcgggctgg 180
 gcctgcacag tcttgaggcc gaccaagagc cagggaagcca gatggtggag gcca 234

<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser
 1 5 10 15
 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu
 20 25 30
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr
 35 40 45
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
 50 55 60
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala
 65 70 75

<210> 330

<211> 70
 <212> DNA
 <213> Homo sapien

<400> 330
 cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60
 gctgcagcca 70

<210> 331
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
 1 5 10 15
 Val Ser Gly Ser Cys Ser
 20

<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

<400> 332
 tgggtgcgct gcagccggca gagatgggtg agctcatggt cccgctggtg ctccctcttc 60
 tgcccttcct tctgtatatg gctgcgcccc aaatcaggaa aatgctgtcc agtgggggtg 120
 gtacatcaac tggtcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180
 tcgggaagga gacagccaaa gagctggctc agagaggagc tcgagtatat ttagcttgcc 240
 gggatgtgga aaagggggaa ttggtggcca aagagatcca gaccacgaca gggaaccagc 300
 aggtgttggg gcggaactg gacctgtctg atactaagtc tattcgagct ttgctaagg 360
 gcttcttagc tgaggaaaag cacctccacg ttttgatcaa caatgcagga gtgatgatgt 420
 gtccgtactc gaagacagca gatggctttg agatgcacat aggagtcaac cacttgggtc 480
 acttctctct aaccatctg ctgctagaga aactaaagga atcagcccca tcaaggatag 540
 taaatgtgtc ttccctcgca catcacctgg gaaggatcca ctcccataac ctgcagggcg 600
 agaaattcta caatgcaggc ctggcctact gtcacagcaa gctagccaac atcctcttca 660
 cccaggaact ggcccgga ga ctaaaaggct ctggcggttac gacgtattct gtacaccctg 720
 gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg tgggtggcttt 780
 tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac tgtgccttaa 840
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 ctgcccagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt tgtgacctgc 960
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 agagagcaaa acctccagc ctgacctgct tgggtgtccag ttaaaactca gtgtactgcc 1140
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 ctagagatat cataatagga taagaagacc ctcatatgac ctgcacagct cattttcctt 1260
 ctgaaaagaaa ctactaccta ggagaatcta agctatagca gggatgattt atgcaaattt 1320
 gaactagctt ctttgttcac aattcagttc ctcccaacca accagtcttc acttcaagag 1380
 ggccacactg caacctcagc ttaacatgaa taacaaagac tggctcagga gcagggcttg 1440
 cccaggcatg gtggatcacc ggaggtcagt agttcaagac cagcctggcc aacatgggtg 1500
 aacccacact ctactaaaaa ttgtgtatat cttgtgtgtg ctccctgttt atgtgtgcca 1560
 agggagtatt ttcacaaagt tcaaaacagc cacaataatc agagatggag caaaccagtg 1620
 ccatccagtc tttatgcaaa tgaaatgctg caaagggaag cagattctgt atatgttggt 1680
 aactacccac caagagcaca tgggtagcag ggaagaagta aaaaaagaga aggagaatac 1740

```
<210> 333
<211> 3030
<212> DNA
<213> Homo sapien
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<400> 333						
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gctccatgga	gcccggcaat	tatgccacct	tggatggagc	caaggatata	gaaggcttgc	180
tgggagcggg	aggggggcgg	aatctggctg	ccactcccc	tctgaccagc	caccagcgg	240
cgctacgct	gatgcctgct	gtcaactatg	cccccttga	tctgccaggc	tcggcggagc	300
cgccaaagca	atgccacca	tgccctgggg	tgccccaggg	gacgtcccca	gtccccgtgc	360
cttatggtta	ctttggaggc	gggtactact	cctgccgagt	gtcccggagc	tcgtgaaac	420
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gacatgactc	cctgttgctt	gtggacagtt	accagtcttg	ggctctcgct	ggtggctgga	660
acagccagat	gtgttgccag	ggagaacaga	accaccagg	tcccttttgg	aaggcagcat	720
ttgcagactc	cagcgggcag	cacctcctg	acgctgcgc	ctttcgtcgc	ggccgcaaga	780
aacgcattcc	gtacagcaag	gggcagttgc	gggagctgga	gcgggagtat	gcggctaaca	840
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cccaaagaac	ctggcccagt	cataatcatt	catctcgaca	gtggcaataa	tcacgataac	1260
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tctcagctga	cagctgggta	ggtggacaat	tgtagaggct	gtctcttctt	ccctccttgt	1560
ccaccccata	gggtgtacce	actggtcttg	gaagcaccca	tccttaatac	gatgattttt	1620
ctgtcgtgtg	aaaatgaagc	cagcaggctg	cccctagtca	gtccttcctt	ccagagaaaa	1680
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ggtatcccagt	gaagtagatg	ttttagagct	tgcatactta	gcccttccca	ggcacaaacg	1860
gagtggcaga	gtggtgccaa	ccctgttttc	ccagtcacag	tagacagatt	cacagtgcgg	1920
aattctggaa	gctggagaca	gacgggctct	ttgcagagcc	gggactctga	gagggacatg	1980
agggcctctg	cctctgtggt	cattctctga	tgtcctgtac	ctgggctcag	tgcccgggtg	2040

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ctggacaacc	cgcagaaccg	aagctccgag	cagcgggtcg	gtggcgagta	gtggggtcgg	2220
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<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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<210> 335
<211> 2984
<212> DNA
<213> Homo sapien
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<400> 335						
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[illegible]

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<210> 337
<211> 9
<212> PRT
<213> Homo sapien
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```
<210> 338
<211> 9
<212> PRT
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<400> 338
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1 5

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<210> 339
<211> 318
<212> PRT
<213> Homo sapien
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<400> 339															
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Leu	Tyr	Met	Ala	Ala	Pro	Gln	Ile	Arg	Lys	Met	Leu	Ser	Ser	Gly	Val
20 25 30															
Cys	Thr	Ser	Thr	Val	Gln	Leu	Pro	Gly	Lys	Val	Val	Val	Val	Thr	Gly
35 40 45															
Ala	Asn	Thr	Gly	Ile	Gly	Lys	Glu	Thr	Ala	Lys	Glu	Leu	Ala	Gln	Arg
50 55 60															
Gly	Ala	Arg	Val	Tyr	Leu	Ala	Cys	Arg	Asp	Val	Glu	Lys	Gly	Glu	Leu
65	70 75 80														
Val	Ala	Lys	Glu	Ile	Gln	Thr	Thr	Thr	Gly	Asn	Gln	Gln	Val	Leu	Val
85 90 95															
Arg	Lys	Leu	Asp	Leu	Ser	Asp	Thr	Lys	Ser	Ile	Arg	Ala	Phe	Ala	Lys
100 105 110															
Gly	Phe	Leu	Ala	Glu	Glu	Lys	His	Leu	His	Val	Leu	Ile	Asn	Asn	Ala
115 120 125															
Gly	Val	Met	Met	Cys	Pro	Tyr	Ser	Lys	Thr	Ala	Asp	Gly	Phe	Glu	Met
130 135 140															
His	Ile	Gly	Val	Asn	His	Leu	Gly	His	Phe	Leu	Leu	Thr	His	Leu	Leu
145	150 155 160														
Leu	Glu	Lys	Leu	Lys	Glu	Ser	Ala	Pro	Ser	Arg	Ile	Val	Asn	Val	Ser
165 170 175															
Ser	Leu	Ala	His	His	Leu	Gly	Arg	Ile	His	Phe	His	Asn	Leu	Gln	Gly
180 185 190															
Glu	Lys	Phe	Tyr	Asn	Ala	Gly	Leu	Ala	Tyr	Cys	His	Ser	Lys	Leu	Ala
195 200 205															
Asn	Ile	Leu	Phe	Thr	Gln	Glu	Leu	Ala	Arg	Arg	Leu	Lys	Gly	Ser	Gly
210 215 220															
Val	Thr	Thr	Tyr	Ser	Val	His	Pro	Gly	Thr	Val	Gln	Ser	Glu	Leu	Val
225	230 235 240														
Arg	His	Ser	Ser	Phe	Met	Arg	Trp	Met	Trp	Trp	Leu	Phe	Ser	Phe	Phe
245 250 255															
Ile	Lys	Thr	Pro	Gln	Gln	Gly	Ala	Gln	Thr	Ser	Leu	His	Cys	Ala	Leu
260 265 270															
Thr	Glu	Gly	Leu	Glu	Ile	Leu	Ser	Gly	Asn	His	Phe	Ser	Asp	Cys	His
275 280 285															
Val	Ala	Trp	Val	Ser	Ala	Gln	Ala	Arg	Asn	Glu	Thr	Ile	Ala	Arg	Arg
290 295 300															
Leu	Trp	Asp	Val	Ser	Cys	Asp	Leu	Leu	Gly	Leu	Pro	Ile	Asp		
305	310 315														

<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340
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 ctctgctgc aggtctggagt gtctttattc ctggcgggag accgcacatt ccactgctga 180
 gggtgtgggg gcggtttatc aggcagtgat aaacataaga tgtcatttcc ttgactccgg 240
 ccttcaattt tctctttggc tgacgacgga gtccgtgggtg tcccgatgta actgaccct 300
 gctccaaacg tgacatcact gatgctcttc tcgggggtgc tgatggcccg cttggtcacg 360
 tgctcaatct cgccattcga ctcttgctcc aaactgtatg aagacacctg actgcacgtt 420
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 ctg 483

<210> 341
 <211> 344
 <212> DNA
 <213> Homo sapien

<400> 341
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 gctgccttac aagtattaaa tattttactt ctttccataa agagtagctc aaaatatgca 180
 attaatTTaa taattttctga tgatggtttt atctgcagta atatgtatat catctattag 240
 aatttactta atgaaaaact gaagagaaca aaatttgtaa ccactagcac ttaagtactc 300
 ctgattctta acattgtctt taatgaccac aagacaacca acag 344

<210> 342
 <211> 592
 <212> DNA
 <213> Homo sapien

<400> 342
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 caatgtggaa acttcttata cttggttcca ttatgaagtt ggacaattgc tgctatcaca 120
 cctggcaggc aaaccaatgc caagagagtg atggaaacca ttggcaagac tttgttgatg 180
 accaggattg gaattttata aaaatattgt tgatgggaag ttgctaaagg gtgaattact 240
 tccctcagaa gagtgtaaag aaaagtcaga gatgctataa tagcagctat ttttaattggc 300
 aagtgccact gtggaaagag ttctgtgtg tgctgaagtt ctgaagggca gtcaaattca 360
 tcagcatggg ctgtttgggtg caaatgcaaa agcacaggtc tttttagcat gctggtctct 420
 cccgtgtcct tatgcaaata atcgtcttct tctaaatttc tcctaggctt cattttccaa 480
 agttcttctt ggtttgatgt gtcttttctg ctttccatta attctataaa atagtatggc 540
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<210> 343
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 343
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cttgtaaactc tcctttctcc tttcttcccc tttctctgcc cgcctttccc atcctgctgt 180
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ctgactgccc aaggggctca gaaccccagc aatcccttcc tttcactacc ttcttttttg 300
ggggtagttg gaagggactg aaattgtggg gggaaggtag gaggcacatc aataaagagg 360
aaaccaccaa gctgaaaaaa aa 382

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```

<210> 344
<211> 536
<212> DNA
<213> Homo sapien

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<400> 344
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caataggcca cataaacttg gctggatgga acctcacaat aagtggttca cctcttgttt 120
gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180
agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240
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tcgaccctat atcccccgcc cgcgtccctt tctccataaa attcttctta gtagctatta 360
ccttcttatt atttgatcta gaaattgcc tctttttacc cctaccatga gccctacaaa 420
caactaacct gccactaata gttatgtcat ccctcttatt aatcatcatc ctagccctaa 480
gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

```

```

<210> 345
<211> 251
<212> DNA
<213> Homo sapien

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```

<400> 345
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gcgtgggcca ggaaatcaca tctacactg cccaggagcc agacacattt atggaacaga 180
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gtgccatttc c 251

```

```

<210> 346
<211> 282
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

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```

<400> 346
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agggagacta tacctggctc ttgccctaag tgagaggtct tccctccgc accaaaaaat 180
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
ggtctcatth cccaagggtg cttcaatgct catnaaaacc aa 282

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```

<210> 347
<211> 201
<212> DNA

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cggctggaat	tgctctgggt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
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aatcgag						908

<210> 351
 <211> 472
 <212> DNA
 <213> Homo sapien

<400> 351						
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cattaact	attttaaa	cagwtttgyg	agtcattttac	cacaagctaa	atgtgtacac	180
tatgataaaa	acaaccattg	tattcctgtt	tttctaaaca	gtcctaattt	ctaacactgt	240
atatatcctt	cgacatcaat	gaactttgtt	ttcttttact	ccagtaataa	agtaggcaca	300
gatctgtcca	caacaaactt	gccctctcat	gccttgctc	tcaccatgct	ctgctccagg	360
tcagccccc	tttggectgt	ttgttttgtc	aaaaacctaa	tctgcttctt	gcttttcttg	420
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<210> 352
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 352						
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caggctgcgt	tccgtcctta	cgatgaagac	cacgatgcag	tttccaaaca	ttgccactac	180
atacatggaa	aggaggggga	agccaacca	gaaatgggct	ttctctaata	ctgggatacc	240
aataagcaca	a					251

<210> 353
 <211> 436
 <212> DNA
 <213> Homo sapien

<400> 353						
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cacattatgg	tattattact	atactgatta	tatttatcat	gtgacttcta	attaraaaat	120
gtatccaaaa	gcaaaacagc	agatatata	aattaaagag	acagaagata	gacattaaca	180
gataaggcaa	cttatacatt	gacaatccaa	atccaatata	tttaaacatt	tgggaaatga	240
gggggacaaa	tggaagccar	atcaaatttg	tgtaaaacta	ttcagtatgt	ttcccttgct	300
tcatgtctga	raaggctctc	ccttcaatgg	ggatgacaaa	ctccaaatgc	cacacaaatg	360
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gggctcctaa	tgtagt					436

<210> 354
 <211> 854
 <212> DNA
 <213> Homo sapien

<400> 354

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<210> 355
<211> 676
<212> DNA
<213> Homo sapien
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```
<210> 356
<211> 574
<212> DNA
<213> Homo sapien
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$\langle 210 \rangle$	357
$\langle 211 \rangle$	393

<212> DNA
<213> Homo sapien

<400> 357

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aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aaatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

<210> 358
<211> 630
<212> DNA
<213> Homo sapien

<400> 358

acagggtaaa	caggaggatc	cttgctctca	cggagcttac	attctagcag	gaggacaata	60
ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagtg	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taaggaagtg	180
gagtttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtgttgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcaactgaagg	gagtaatgtg	acattacttt	tcaacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaatttcagg	ggatagtga	aatcagtagg	acttaatgag	600
caagccagag	gttcctccac	aacaaccagt				630

<210> 359
<211> 620
<212> DNA
<213> Homo sapien

<400> 359

acagcattcc	aaaatatata	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
taattaaaaa	atgctactaa	tatagaaaat	ttataatcag	aaaaataaat	attcaggagg	120
ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
atggcattcc	ccaaggga	tagagagatt	cttctggatt	atgttcaata	tttatttcac	240
aggattaact	gttttaggaa	cagatatata	gcttcgccac	ggaagagatg	gacaaagcac	300
aaagacaaca	tgatacctta	ggaagcaaca	ctaccctttc	aggcataaaa	tttgagaaaa	360
tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
aatgtaagat	aactttataa	gaattctggg	tcaaataaaa	ttctttgaag	aaaacatcca	480
aatgtcattg	acttatcaaa	tactatcttg	gcatataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacacaaaa	caaaaccatc	aacttatatt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

<210> 360
<211> 431
<212> DNA
<213> Homo sapien

<400> 360


```
<210> 361
<211> 351
<212> DNA
<213> Homo sapien
```

```
<210> 362
<211> 463
<212> DNA
<213> Homo sapien
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```
<210> 363
<211> 653
<212> DNA
<213> Homo sapien
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<220>  
<221> misc_feature  
<222> (1)...(653)  
<223> n = A,T,C or G
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<400> 363						
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tgggaggcac	tacgcaagat	gggactgcgt	cctgggggtga	gacatcctct	ccttgagat	180
ctaacgaaac	ttctcaccta	tgagttgtaa	agcagaataa	cctgnactac	agacgagtgc	240
ccaacagcaa	ccccccgga	gtagtgattc	ctctrgggcc	tccgttctca	ccatgagasc	300
taqcaagatg	naagtgttga	gattcattgc	agaggttcag	aaaagagacc	cntcgtgact	360

```
<210> 364
<211> 401
<212> DNA
<213> Homo sapien
```

```
<210> 365
<211> 356
<212> DNA
<213> Homo sapien
```

```
<210> 366
<211> 1851
<212> DNA
<213> Homo sapien
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<400> 366						
tcatcaccat	tgccagcagc	ggcaccgtta	gtcagggtttt	ctgggaatcc	cacatgagta	60
cttcogtggt	cttcattctt	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tactttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatatc	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaana	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgta	480
ggccatgett	gtttttttgat	tcgatatcag	caccgtataa	gagcagtgct	ttggccatta	540
atttatcttc	attgtagaca	gcatagtgta	gagtggtatt	tccatactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
tttgcttgtc	cctcttggtc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggacgtggt	900

```
<210> 367
<211> 668
<212> DNA
<213> Homo sapien
```

```
<210> 368
<211> 1512
<212> DNA
<213> Homo sapien
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<400> 368						
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ttcaaacaga	ttggaaccc	ggagttacct	gctagttggt	gaaactggtt	ggtagacgcg	180
atctgttggc	tactactggc	ttctcctggc	tgtaaaaagc	agatggtggt	tgaggttgat	240
tccatgcccg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgtgtctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagt	600
gccttcatgg	agcccaggtg	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	qtaaaqtccc	cagaaaaggat	ctcatcgctc	tgctcagggg	cactgacgtg	720

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<210> 369
<211> 1853
<212> DNA
<213> Homo sapien
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<210> 370

<211> 2184
 <212> DNA
 <213> Homo sapien

<400> 370

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aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaataca	aggatgctgg	attttgtcaa	atgccttttc	180
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gtggcgctga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
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ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatattgtgg	tttctggatc	tcactcctct	tgggtggaca	660
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atggagaaga	tctggacaag	ctccacagag	ctgcctggtg	gggtaaagtc	cccagaaagg	1020
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ctctacatct	ggcctctgcc	aatgggaatt	cagaagtagt	aaaactcgtg	ctggacagac	1140
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cgggtgaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtggt	ggcgggtgcc	2040
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ctcaaaaaaa	aaaaaaaaaa	aaaa				2184

<210> 371
 <211> 1855
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1855)
 <223> n = A,T,C or G

<400> 371

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gccgcccccg	cataaccgtc	agactggcct	gtaacggctt	gcaggcgcac	gccgcacgcg	180
cgtaacggct	tggctgccct	gtaacggctt	gcacgtgcat	gctgcacgcg	cgtaacggc	240
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gctgggtgtt	ttctccgggg	gggktkgccc	ttcctggggg	gggcgtgggk	cgccccagg	480
gggcgtgggc	tttccccggg	tgggtgtggg	ttttcctggg	gtgggggtggg	ctgtgctggg	540
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cggcaagagc	aacgtggkcg	cttgggggaga	ctacgatgac	agcgccttca	tggakcccg	960
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ccccagaaa	gatctcatcg	tcatgctcag	ggacactgay	gtgaacaaga	rggacaagca	1080
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gctggacaga	cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	1200
ggccgtacaa	tggcaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gcaactgatcc	1260
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acatgtttca	gtgaatagag	atcctgtctc	tttggaagt	tcctaataaa	cagtaataga	1800
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<210> 372
 <211> 1059
 <212> DNA
 <213> Homo sapien

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gcgcttgrgg	agactmcgat	gacagygcct	tcatggagcc	caggtaccac	gtccgtggag	180
aagatctgga	caagctccac	agagctgccc	tgggtgggta	aagtccccag	aaaggatctc	240
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catctggcct	ctgccaatg	gaattcagaa	gtagtataac	tcstgctgga	cagacgatgt	360
caacttaatg	tccttgacaa	caaaaagagg	acagctctga	yaaaggccgt	acaatgccag	420
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tatggaaata	ccactctrca	ctaygctrct	tayaatgaag	ataaattaat	ggccaaagca	540
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cttcaaaata	ctgaaatgca	ttcattttta	cattgacgtg	tgtaaggggc	agtcttccgt	660
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aatgcacttc	tggtaaaatac	ttttgttgaa	aacactgaat	ttgtaaaagg	taatacttac	840
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<210> 373
<211> 1155
<212> DNA
<213> Homo sapien
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```
<210> 374
<211> 2000
<212> DNA
<213> Homo sapien
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<400> 374						
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agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
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cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

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tctgccaatg	ggaattcaga	agtagtaaaa	ctctgctgg	acagacgatg	tcaacttaat	600
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accactctgc	actacgctat	ctataatgaa	gataaatata	tggccaaagc	actgctctta	780
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catgagcaaa	aacagcaagt	cgtgaaattt	ttaatcaaga	aaaaagcgaa	tttaaattga	900
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gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaaag	1140
ctgacatcag	aggaagagtc	acaaagggttc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
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caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaattttat	ggctatcgaa	1620
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actgctggca	atggtgatga	tggattaatt	cctccaagga	agagcagaac	acctgaaagc	1740
cagcaatttc	ctgacactga	gaatgaagag	tatcacagtg	acgaacaaaa	tgatactcag	1800
aagcaatttt	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860

gaaaagcaga tagaagtggg tgaaaaaatg aattctgagc tttctcttag ttgtaagaaa 1920
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 <212> PRT
 <213> Homo sapien

<400> 376

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 Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
 35 40 45
 Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50 55 60
 Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65 70 75 80
 Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85 90 95
 Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100 105 110
 His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115 120 125
 Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 130 135 140
 Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 145 150 155 160
 Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 165 170 175
 Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
 180 185 190
 Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195 200 205
 Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210 215 220
 Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225 230 235 240
 Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
 245 250 255
 Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260 265 270
 Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275 280 285
 Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
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 Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
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 Ser Met Leu Phe Leu Val Ile Ile Met
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<213> Homo sapien
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Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu		
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Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp		
	610					615					620						
Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys		
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Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys		
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Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys		
			660					665					670				
Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala		
		675					680					685					
Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly		
	690					695					700						
Ser	Ala	Ser	Ile	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser		
705					710					715					720		
Ser	Gln	Asp	Leu	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser		
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His	His	His	Val	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln		
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Met	Leu	Lys	Ile	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys		
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Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser		
	770					775					780						
Gln	Pro	Glu	Lys	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp		
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Arg	Glu	Val	Glu	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly		
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Leu	Leu	Glu	Asn	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn		
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Gly	Leu	Ile	Pro	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe		
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Pro	Asp	Asn	Glu	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser		
	850					855					860						
Asp	Tyr	Lys	Glu	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn		
865					870					875					880		
Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu		
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Glu	Gly	Ser	Glu	Asn	Gly	Gln	Pro	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile		
			900					905					910				
Glu	Glu	Met	Lys	Lys	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn		
		915															

	995						1000				1005						
Leu	Ser	Cys	Lys	Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu		
	1010					1015					1020						
Arg	Glu	Glu	Ile	Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His		
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Gln	Ser	Gln	Leu	Pro	Arg	Thr	His	Met	Val	Val	Glu	Val	Asp	Ser	Met		
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Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys	Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met		
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Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe	Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys		
	1075						1080					1085					
Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr		
	1090					1095					1100						
Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Arg	His	Cys	Phe	Pro	Cys	Cys		
1105					1110					1115					1120		
Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Gly	Ala	Ser	Gly	Asp	His	Asp	Asp		
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Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn	Lys	Met	Gly	Lys	Trp	Cys	Cys	His		
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Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp		
	1155						1160					1165					
Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	Met	Glu	Pro	Arg	Tyr	His	Val	Arg		
	1170					1175					1180						
Gly	Glu	Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val		
1185					1190				1195						1200		
Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys		
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Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly		
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Asn	Ser	Glu	Val	Val	Lys	Leu	Leu	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn		
	1235					1240						1245					
Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys		
	1250					1255					1260						
Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro		
1265				1270					1275						1280		
Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr		
		1285						1290						1295			
Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp		
		1300					1305						1310				
Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val		
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His	Glu	Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala		
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Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu					

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<212> PRT
<213> Homo sapien
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Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
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Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75				80	

Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn		
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Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser		
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Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe		
		115					120					125					
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His		
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Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met		
145					150					155					160		
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala		
			165						170					175			
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu		
			180				185						190				
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr		
	195					200						205					
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met		
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Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn		
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Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys		
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Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly		
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Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val		
	275					280						285					
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr		
	290					295					300						
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile		
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Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu		
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Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val		
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Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile		
	355					360						365					
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu		
	370					375					380						
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys		
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Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu		
			405						410				415				
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn		
			420					425					430				
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro		
	435						440					445					
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu		
	450					455					460						
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu		
465					470					475				480			
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp		
			485						490				495				
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu		
			500					505					510				

Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

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<400> 380
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 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn

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225															230															235															240																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys	245	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly	250	Glu	Ser	Lys	Asn	Lys	His	Gly	255	Ala	Lys	His	Gly	260	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val	265	Glu	Gln	Asn	Ile	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr	270	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile	275	Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu	280	Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val	285	Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile	290	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu	295	Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys	400	Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu	405	Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn	410	Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro	415	Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu	420	Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu	425	Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	430	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	435	Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys	440	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala	445	Thr	Pro	Glu	Ser	Gln	Asp	Gly	Leu	Ile	Asn	Lys	Arg	450	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His	455	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Gln	Asn	460	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln	Ile	465	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys	470	Lys	Gly	Asp	Leu	Leu	Glu	Asn	Ser	Thr	Met	Lys	His	Gln	Ser	Glu	475	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Gln	Asn	480	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu	485	Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	490	Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys	495	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala	500	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His	505	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn	510	Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	515	Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys	520	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His	525	Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Leu	Ser	Cys	Lys	Lys	530	His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala	535	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His	5

660

665

670

<210> 381
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 381

```

ggagaagcgt ctgctggggc aggaaggggt ttccctgccc tctcacctgt ccctcaccaa    60
ggtaacatgc ttccccctaag ggtatcccaa cccagggggc tcaccatgac ctctgagggg    120
ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac    180
atcctggggc tccaaggcag aggagaggggt cctcaagaag gtcaggagga aaatccgtaa    240
caagcagtca g                                     251

```

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382

```

cttctctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa    60
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cactgggagg ggacatcctg cagaaggtag gagtgcagca acacccgctg caggggaggg    180
gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag    240
gggcctggag ggcgtgagga ggagcgaggg ggctgcattg ctggagttag ggatcagggg    300
cagggcgcgga gatggcctca cacagggaag agaggggccc tctgcaggg cctcacctgg    360
gccacaggag gacactgctt ttctctgag gagtgcaggag ctgtggatgg tgctggacag    420
aagaaggaca gggcctggct cagggtgtcca gaggtgtcg ctggcttccc tttgggatca    480
gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg    540
gtggctccag gccttgcccc tgctggggcc ctacccagc ctccctcaca gtctcctggc    600
cctcagttct tccccccac tccatcctcc atctggcctc agtgggtcat tctgatcact    660
gaactgacca taccagcccc tgcccacggc cctccatggc tccccaatgc cctggagagg    720
ggacatctag tcagagagta gtctgaaga ggtggcctct gcgatgtgcc tgtgggggca    780
gcaccttgca gatggtcccg gccctcatcc tgtgacctg tctgcaggga ctgtcctcct    840
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gagccttggt cctctgttg gactccctgc ccatattctt gtgggagtgg gttctggaga    960
catttctgtc tgttctgag agctgggaat tgctctcagt catctgcctg cgcggttctg    1020
agagatggag ttgcctaggc agttattggg gccaatcttt ctactgtgt ctctcctcct    1080
ttacccttag ggtgattctg ggggtccact tgtctgtaat ggtgtgcttc aaggatcac    1140
atcatggggc cctgagccat gtgccctgcc tgaaaagcct gctgtgtaca ccaaggtggt    1200
gcattaccgg aagtggatca aggacaccat cgcagccaac ccctgagtgc ccctgtccca    1260
cccctacctc tagtaaatth aagtccacct cacgttctgg catcacttgg cctttctgga    1320
tgctggacac ctgaagcttg gaactcacct ggccgaagct cgagcctcct gagtccctact    1380
gacctgtgct ttctgggtgt gagtccaggg ctgctaggaa aaggaatggg cagacacagg    1440
tgtatgccaa tgtttctgaa atgggtataa ttctgtctc tccttcggaa cactggctgt    1500
ctctgaagac ttctcgtcga gtttcagtga ggacacacac aaagacgtgg tgaccatgt    1560
tgtttgtggg gtgcagagat gggaggggtg gggcccaccc tggaagagtg gacagtgaca    1620
caaggtggac actctctaca gatcactgag gataagctgg agccacaatg catgaggcac    1680
acacacagca aggttgacgc tgtaaacata gccacgctg tcctgggggc actgggaagc    1740
ctagataagg ccgtgagcag aaagaagggg aggatcctcc tatgttgttg aaggagggac    1800
tagggggaga aactgaaagc tgattaatta caggaggttt gttcaggtcc cccaaaccac    1860
cgtcagattt gatgatttcc tagcaggact tacagaaata aagagctatc atgctgtggt    1920
ttattatggt ttgttacatt gataggatag atactgaaat cagcaaacaa aacagatgta    1980
tagattagag tgtggagaaa acagaggaaa acttgacgtt acgaagactg gcaacttggc    2040

```

```
<210> 383
<211> 154
<212> PRT
<213> Homo sapiens

<400> 383
Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
      5                      10
Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
      20                    25          30
His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
      35                      40          45
Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
      50                    55          60
Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
      65                    70          75          80
Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
      85                      90          95
Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
      100                   105         110
Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
      115                   120         125
Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
      130                   135         140
```

Ala Leu Glu Arg Gly His Leu Val Arg Glu
145 150

<210> 384
<211> 557
<212> DNA
<213> Homo sapiens

<400> 384
ggatcctcta gagcgccgc ctactactac taaattcgcg gccgcgtcga cgaagaagag 60
aaagatgtgt ttgttttgg actctctgtg gtcccttcca atgctgtggg tttccaacca 120
ggggaagggt ccccttttga ttgccaagtg ccataaccat gagcactact ctaccatggg 180
tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
acttaacctt gaaatggaaa gtcttgcaat cccatttgcg ggatccgtct gtgcacatgc 300
ctctgtagag agcagcattc ccagggaacct tggaaacagt tggcactgta aggtgcttgc 360
tccccaaagac acatcctaata aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc 420
ccttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaaagt 480
tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
aaaaaaaaa aaaaaaa 557

<210> 385
<211> 337
<212> DNA
<213> Homo sapiens

<400> 385
ttcccagggt atgtgcgagg gaagacacat ttactatcct tgatggggct gattccttta 60
gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
aaacgtggag gtgcttttcc tcagctaaga agcccttagc aaaagctcga atagacttag 240
tatcagacag gtccagtttc cgcaccaaca cctgctggtt ccctgtcgtg gtctggatct 300
ctttggccac caattccccc ttttccacat cccggca 337

<210> 386
<211> 300
<212> DNA
<213> Homo sapiens

<400> 386
gggcccgtcta ccggcccagg cccgcctcgc cgagtccctc tccccgggtg cctgcccgca 60
gcccgctcgg cccagagggt gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
gcgaccttgg cccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcggcggc 180
gcggactttg cccggtgtgt ggggcgagc ggactgcgtg tccgcggacg ggcagcgaag 240
atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
<211> 537
<212> DNA
<213> Homo sapiens

<400> 387
gggcccagtc gggcaccaag ggactctttg caggcttccct tcctcggatc atcaaggctg 60

```

ccccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
tgaaccagga cgggcttctg ggcggctgaa aggggcaagg aggcaaggac cccgtctctc 180
ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttcctc agcactgagg 240
gaggggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300
gcgggcccagc acttccctcag acacaacttc ttctctgctg tccagtcgtg gggatcatca 360
cttaccacc ccccaagttc aagaccaa atctccagctg ccccttctgt gtttccctgt 420
gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctacagcctg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaa aaaaaaa 537

```

<210> 388

<211> 520

<212> DNA

<213> Homo sapiens

<400> 388

```

aggataattt ttaaaccaat caaatgaaaa aaacaaacaa aaaaaaagg aaatgtcatg 60
tgagggttaaa ccagtttgca ttccccta atgtgaaaaa taaggaggact actcagcact 120
gtttgaagat tgctctctct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
ggaccccttc cccaacatgc cccagccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttggt gacctacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
tcataactcaa ttgatgggta ttagacaatt ccatttcttt ctggttatta taaacagaaa 420
atctttcttc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
atgaacttgt cttattttta tgggtgggtt ttttctggt 520

```

<210> 389

<211> 365

<212> DNA

<213> Homo sapiens

<400> 389

```

cgttgcccc gtttgacaga aggaaaggcg gagcttatc aaagtctaga gggagtggag 60
gagttaaggc tggatttcag atctgctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgc ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ctttctctg cttcagcaa gggcggttgc ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaaggg aagggtgctg 360
gggag 365

```

<210> 390

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(221)

<223> n = A,T,C or G

<400> 390

```

tgcttctcca tcttgcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggnnt ctcattgggtg tggaacatct ctgcttgagg ttccaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gaggagtggt aggagttaag gctggatttc a 221

```

<210> 391
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(325)
 <223> n = A,T,C or G

<400> 391
 tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
 tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180
 naanttngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
 cactgcccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300
 gagacctccg gctactacta tgacc 325

<210> 392
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(277)
 <223> n = A,T,C or G

<400> 392
 atattgttta actccttcct ttatatcttt taacattttc atggngaaaag gttcacatct 60
 agtctcactt nggnagnn ctectacttg agtctcttcc ccggcctggn ccagtngnaa 120
 antaccanga accgncatgn cttanaaact ncctggtttn tgggttnntc aatgactgca 180
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 393
 actagtccag tgtggtggaa ttccgggccg cgtcgacgga caggtcagct gtctggctca 60
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga tttaaattcag cctaaacggt 120
 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
 gagaaggtct agtttgtcca tcagcattat catgatatac ggactgggta cttgggttaag 240
 gaggggtcta ggagatctgt ccctttttaga gacaccttac ttataatgaa gtatttgga 300
 ggtggtttt caaaagtaga aatgtcctgt attccgatga tcatcctgta aacattttat 360
 catttattaa tcatccctgc ctgtgtctat tattatattc atatctctac gctggaaact 420
 ttctgcctca atgtttactg tgcccttgggt tttgctagtt tgtgttgggt aaaaaaaaaa 480
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
 ttttgccctat caaaaaaaaa aaaaaa 566

<210> 394

<211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(384)
 <223> n = A,T,C or G

<400> 394
 gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
 tgcaaattng gaccggggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
 gcaggaggac cgggctttta ggagttttta gctgagtgtc actgtagacc ccaaatacca 180
 tcccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg agcatgacgt 240
 gaacatccag ttctctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
 aggggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
 tgagcagatg gtttctgagg acgt 384

<210> 395
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 395
 ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgc 60
 tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
 tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
 attcacgtct ttccagtacc ctgagttctc tatagagttg cctaacacag gcagaattgg 240
 ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
 caagttctct ttggaaagcc tgggcatctc ctactacag acctctgacc atgggacggt 360
 gcagcctggt gagaccatcc aatcccaaat aaaatgcac 399

<210> 396
 <211> 403
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(403)
 <223> n = A,T,C or G

<400> 396
 tggagttnct agtgcaaaca agccataaag cttcagtagc aaattactgt ctacagaaa 60
 gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
 agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
 actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
 taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
 gtttagggga gggagtggag gataaaagaa ggaaaaaaag aagagtgaga aaacctatct 360
 atcaaagcag gtgctatcac tcaatgttag gccctgctct ttt 403

<210> 397
 <211> 100
 <212> DNA

acatcaacta cttcctcatt ttaaggtatg gcagttccct tcatcccctt ttcctgcctt 60
 gtacatgtac atgtatgaaa tttcctttctc ttaccgaact ctctccacac atcacaaggt 120
 caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180


```

tgagtctctt ttttccacgt ttaagggggc atggcaggac ttagagttgc gagttaagac 240
tgcagagggc tagagaatta ttccatacag gctttgaggc caccatgtc acttatcccg 300
tataccctct caccatcccc ttgtctactc tgatgccccc aagatgcaac tgggcagcta 360
gttgggccca taattctggg cctttgttgt ttgttttaac tacttgggca tcccaggaag 420
ctttccagtg atctcctacc atggggcccc ctctctggat caagccctc ccaggccctg 480
tccccagccc ctctgcccc agcccacccg cttgccttgg tgctcagccc tccatttggg 540
agcaggtt                                     548

```

```

<210> 401
<211> 355
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(355)
<223> n = A,T,C or G

```

```

<400> 401
actgtttcca tgttatgttt ctacacattg ctacctcagt gctcctggaa acttagcttt 60
tgatgtctcc aagtagtcca ctttcattta actctttgaa actgtatcat ctttgccaag 120
taagagtggg ggctatttcc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atggtggcgg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataacccat gagcactact ctaccatggn tctgc 355

```

```

<210> 402
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(407)
<223> n = A,T,C or G

```

```

<400> 402
atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaaggtgggc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaac tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctccccctgc agagagtccc tgatctccca aaatttgggt gagatgtaag 360
gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

```

```

<210> 403
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```
<210> 404
<211> 225
<212> DNA
<213> Homo sapiens
```

```
<210> 405
<211> 334
<212> DNA
<213> Homo sapiens
```

<400> 405						
gagctgtttat	actgtgagtt	ctactaggaa	atcatcaaat	ctgagggttg	tctggaggac	60
ttcaatacac	ctcccccat	agtgaatcag	cttcaggggg	gtccagtgcc	tctccttact	120
tcatccccat	cccatgccaa	aggaagaccc	tccctccttg	gtcacagcc	ttctctaggc	180
ttcccagtg	ctccaggaca	gagttgggta	tgttttcagc	tccatccttg	ctgtgagtg	240
ctggtgcggt	tgtgcctcca	gcttctgctc	agtgcttcat	ggacagtgtc	cagcccatgt	300
cactctccac	tctctcann	tggtatccac	ccct			334

```
<210> 406
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(216)  
<223> n = A,T,C or G
```

<400> 406						
tttcatacct	aatgaggggag	ttganatnac	atnnaaccag	gaaatgcatg	gatctcaang	60
gaaacaacaa	cccaataaac	tcggagtggc	agactgacaa	ctgtgagaca	tgcaattgct	120
acnaaacaca	aatttnatgt	tgcacccttg	tttctacacc	tgtgggttat	gacaaagaca	180
actgccaaag	aatnttcaag	aaggaggact	gccant			216

<210> 407
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 407
 gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
 gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
 gtacaacatt gcacccagtgc tcagatttcta cacctggcca ctcaggaagc aagagttaat 180
 cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
 ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
 tgccagacag gagaaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
 tgggagttcc agaaaaagtgt aaaacagaca atggggccagg ttctgtagta aag 413

<210> 408
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(183)
 <223> n = A,T,C or G

<400> 408
 ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtcct ttgnnattaa 60
 tncttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
 cattatcctt ccagtattcn ccttctnttt tatttactcc ttcttggtta cccatgtact 180
 ntt 183

<210> 409
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 409
 cccacgcatg ataagctcct tatttctgta agtcctgcta ggaaatcatc aaatctgacg 60
 gtggtttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
 gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
 gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
 ggcntatgc 250

<210> 410
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(306)
 <223> n = A,T,C or G

<400> 410
 ggctgggttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
 agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120
 cccagggacc ttggaaacag ttggcactgt aagggtgctt ctccccaaga cacatcctaa 180
 aagggtgttg aatggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
 nactggttgg ctttttttgn atctttttta aactggaaaag ttcaattgng aaaatgaata 300
 tcntgc 306

<210> 411
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(261)
 <223> n = A,T,C or G

<400> 411
 agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
 cttctctcaa gngaggcaa a 261

<210> 412
 <211> 241
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(241)
 <223> n = A,T,C or G

<400> 412
 gttcaatggt acctgacatt tctacaacac cccactcacc gatgtattcg ttgcccagtg 60
 ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
 actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
 ctgggagatt tctactgggta cattgaattc ccaaactacc cangcaatta cccagccaac 240
 a 241

<210> 413
 <211> 231
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(231)
 <223> n = A,T,C or G


```
<220>  
<221> misc_feature  
<222> (1)...(303)  
<223> n = A,T,C or G
```



```

aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tactgacag aacaggctctt ttttgggtcc ttcttctcca ccacgatata cttgcagtcc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta                                     310

```

<210> 424

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(370)

<223> n = A,T,C or G

<400> 424

```

gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
cactgacaga acaggctctt tttgggtcct ttcttctcac cacgatatac ttgcagtcct 180
ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
ggttgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
tccgtcgacg                                     370

```

<210> 425

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(216)

<223> n = A,T,C or G

<400> 425

```

aattgctatn ntttattttg ccaactcaaaa taattaccaa aaaaaaaaaa tnttaaatga 60
taacaacnca acatcaaggc aananaaca ggaatggntg actntgcata aatnggccga 120
anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
gaggntntca ggaccgctcg atgtntnttg aggagg                                     216

```

<210> 426

<211> 596

<212> DNA

<213> Homo sapiens

<400> 426

```

cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
tggcagtcag tgatggaagg gtgttctgat cattccgact gcccgaaggg tcgctggcca 120
gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtta 300
ttaggcagtt catctgcact gataacttct tggcagctga gctggtcgga gctgtggccc 360
aaacgcacac ttggcttttg gttttgagat acaactctta atcttttagt catgcttgag 420

```


<221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 430
 cttatcncaa tggggctccc aaacttggct gtgcagtgga aactccgggg gaattttgaa 60
 gaacactgac acccatcttc caccocgaca ctctgattta attgggctgc agtgagaaca 120
 gagcatcaat ttaaaaagct gcccagaatg ttntcctggg cagcgttggt atctttgccn 180
 ccttcgtgac tttatgcaat gcatcatgct atttcatacc taatgaggga gttccaggag 240
 attcaaccag gatgtttcta cncctgtggg ttatgacaaa gacaactgcc aaagaatntt 300
 caagaaggag gactgcaagt atatcgtggg ggagaagaag gacccaaaaa agacctgttc 360
 tgtcagttaa tggataatct aatgtgcttc tagtaggcac agggctccca ggccaggcct 420
 cattctctc tggcctctaa tagtcaatga ttgtgtagcc atgcctatca gtaaaaagat 480
 ttttgagcaa aaaaaaaaaa aaaaaaa 507

<210> 431
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(392)
 <223> n = A,T,C or G

<400> 431
 gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttcagattt acatagcgat 60
 aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
 tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
 aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtcctgggtt ttccaacaga 240
 catcatcca gcattctgag attagggnga ttggggatca ttctggagtt ggaatgttca 300
 acaaaagtga tgttgtagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
 gcaatgagtc tggcttttac tctgctgttt ct 392

<210> 432
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(387)
 <223> n = A,T,C or G

<400> 432
 ggtatccnta cataatcaaa tatagctgta gtacatgttt tcattggngt agattaccac 60
 aaatgcaagg caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg 120
 ngtagtccaa gctctcgga gtccagccac tngaaacat gctcccttta gattaacctc 180
 gtggacnctn ttgttgnatt gtctgaactg tagngccctg tattttgctt ctgtctgnga 240
 attctgttgc ttctggggca tttccttgng atgcagagga ccaccacaca gatgacagca 300
 atctgaattg ntccaatcac agctgcgatt aagacatact gaaatcgta aggaccggga 360
 acaacgtata gaacactgga gtccttt 387

<210> 433

<211> 281
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(281)
 <223> n = A,T,C or G

<400> 433
 ttcaactagc anagaanact gcttcagggg gtgtaaaatg aaaggcttcc acgcagttat 60
 ctgattaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
 caggcncat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
 atcgccgtgg ctattcctcn ttgntattac accagnagg ntctctgtnt gccactggg 240
 tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281

<210> 434
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 434
 ttttaaaata agcatttagt gctcagtcct tactgagtac tctttctctc cctcctctctg 60
 aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
 tggttgcaaaa aaaaaaaagt gtctttgttt aaaattactt gggttgtaga tccatcttgc 180
 tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
 agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacccat ttcacccaga 300
 cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca taacaaaccc 360
 tgcaccaatc tgtcacataa aagtctgtga cttgaagtgt agtcagcacc cccaccaaac 420
 tttatTTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaaag taccatgtc 480
 tttta 484

<210> 435
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 435
 gcgcgcgtca gagcaggtca ctttctgcct tccacgtcct ccttcaagga agcccatgt 60
 gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
 cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
 atgggcctgt ggggaggggg caagatagat gagggggagc ggcattgtgc ggggtgaccc 240
 cttggagaga ggaaaaaggc cacaagaggg gctgccaccg ccactaacgg agatggccct 300
 ggtagagacc tttgggggtc tggaaacctt ggactcccca tgctctaact cccacactct 360
 gctatcagaa acttaaacct gaggatTTTT tctgtttttc actcgcaata aattcagagc 420
 aaac 424

<210> 436
 <211> 667
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

TTTAAATAAGCATTTAGT

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 439
 gtctctnnta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggtc tcttgtttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaaga 300
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag t 431

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 440
 agagataaaag cttagggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
 ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
 tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
 aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
 cttctctcaa ggagaggcaa agaaaaggaga tacagtggag acatctggaa agttttctcc 300
 actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
 taaaaattaa aacctctttg tgtcccttgg tcctggaaca tttatgttcc ttttaaagaa 420
 acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
 tatatatatc atagcaaata agtcatctga tgagaacaag cta 523

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 441
 gtctctccta actcctgcc a gaaacagctc tcctcaacat gagagctgca cccctcctcc 60
 tggccagggc agcaagcctt agccttggtc tcttgtttct gctttttttc tggctagacc 120
 gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
 gtcccattga cacctttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
 gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaaga 300
 gatatagaaa attccttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
 acgttgaccg gactttgatg agtgctatga caaacctggc agcccgtcga cgcggccgcg 420
 aatttagtag 430

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

<400> 442
 ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctattctaa aagattttga 60
 tttcctggaa tgacaattat attttaactt tgggtggggg aagagttata ggaccacagt 120

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445
 catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
 ttctgtttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
 tgaaattctt tgcattgtggc agattatttg atgtagtctt ctttaactag catataaatc 180
 tgggtgtgttt cagataaatg aacagcaaaa tgtggtggaa ttaccatttg gaacattgtg 240
 aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
 ggatttttat aatcctactc acaaatgact aggcttctcc tcttgtattt tgaagcagtg 360
 tgggtgctgg attgataaaa aaaaaaaaaaag tcgacgcggc cgcgaattta gtag 414

<210> 446
 <211> 631
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

<400> 446
 acaaatgaga anaaagtggc agagaacacc acataccttg tccggaacat tacaatggct 60
 tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcaggtgtg 120
 atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
 ccggtcctgt acgatttcag tatgtcttaa tcgcagctgt gattggaaca attcagattg 240
 ctgtcatctg tgtggtgggc ctctgcatca caagggccaa actttaggta atagcattgg 300
 actgagattt gtaaaccttc caaccttcca ggaaatgcc cagaagcaac agaattcaca 360
 gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
 taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttgga ctacacaata 480
 cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgtg 540
 aatctacacc aatgaaaaca tgtactacag ctatatgtga ttatgtatgg atatatttga 600
 aatagtatac attgtcttga tgttttttct g 631

<210> 447
 <211> 585
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(585)
 <223> n = A,T,C or G

<400> 447
 ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaaggt 60
 cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
 gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
 agttcctgaa aggcaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240
 tgggctgcca gagtaggata ggattccaga tgctgacacc ttctggggga aacagggtcg 300
 ccagggttgt catagcactc atcaaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360

```

gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tcggtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585

```

```

<210> 448
<211> 93
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(93)
<223> n = A,T,C or G

```

```

<400> 448
tgctcgtggg tcattctgan nnccgaactg accntgccag ccttgccgan ggccnccat 60
ggctccctag tgccctggag agganggggc tag 93

```

```

<210> 449
<211> 706
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(706)
<223> n = A,T,C or G

```

```

<400> 449
ccaagtcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
ttctgancac cgaactgacc atgccagccc tgccgatggt cctccatggc tccctagtgc 120
cctggagagg aggtgtctag tcagagagta gtcctggaag gtggcctctg ngaggagcca 180
cggggacagc atcctgcaga tggtcgggcg cgtcccatc gccattcagg ctgcgcaact 240
gttggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg aaagggggat 300
gtgctgcaag gcgattaagt tgggtaacgc cagggtttct ccagtcncga cgttgtaaaa 360
cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcatgcacg 420
cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc gcggccgcgt 480
cgacgtggga tccnactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncceca 660
gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

```

```

<210> 450
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 450
gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
acagttttaa aaggtaaaac aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
caagtcagggt agtgaaatgg gtggaattaa actcaatta atcctgccag ctgaaacgca 300

```



```

agagacactg  tcagagaggt  aaaaagttag  ttctatccat  gaggtgattc  cacagtcttc  360
tcaagtcaac  acatctgtga  actcacagac  caagttotta  aaccactgtt  caaactctgc  420
tacacatcag  aatcacctgg  agagctttac  aaactcccat  tgccgagggt  cgacgcggcc  480
gcgaatttag  tag

```

```

cccaccaaac tttatTTTTc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
taccatgtc tttatta                                     317

```

```

<210> 454
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 454
ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cagctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attcttctgc atcccagctt gcaaacacaa ttgttcttct aggtctccac 180
ccttcttttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t          231

```

```

<210> 455
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 455
taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaacaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact tctccaagga tcttcttttg gcatcgacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a          231

```

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<210> 456
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 456
ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggt attattcttg gagaaccct gtctgtttac tgtaaccttt 120
tgactcaaaa ttcctttatc aggaataact acatagccac tatttcaaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt ccttgactga cattgccaag t          231

```

```

<210> 457
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

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<400> 457
cgaggtagcc aggggtctga aaatctctnn ttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catcacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctc gaggtgtcgc tggcttttgt g          231

```

```

<210> 458
<211> 231

```

<212> DNA
<213> Homo sapiens

<400> 458
aggtctggtt cccccactt ccactccct ctactctctc taggactggg ctgggccaaag 60
agaagagggg tggtaggga agccgttgag acctgaagcc ccaccctcta ccttccttca 120
acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
ggtcctgggt taggcatttt ggggggccag accccaggag aagaagattc t 231

<210> 459
<211> 231
<212> DNA
<213> Homo sapiens

<400> 459
ggtaccgagg ctgctgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
ccttcgcgaa acctgtggg gccaccagt cctaacggga caggacagag agacagagca 120
gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
<211> 231
<212> DNA
<213> Homo sapiens

<400> 460
gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
cctatcaccc tattcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaat 120
cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
gtggagcttg gtccagcctc cagtccaccc ctaccaggct taaggataga a 231

<210> 461
<211> 231
<212> DNA
<213> Homo sapiens

<400> 461
cgaggtttga gaagctctaa tgtgcagggg agccgagaag caggcggcct agggaggggc 60
gcgtgtgctc cagaagagtg tgtgcatgcc agaggggaaa caggcgcctg tgtgtcctgg 120
gtggggttca gtgaggagtg ggaaattggt tcagcagaac caagccgttg ggtgaataag 180
agggggattc catggcactg atagagccct atagtctcag agctgggaat t 231

<210> 462
<211> 231
<212> DNA
<213> Homo sapiens

<400> 462
aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
gggtcatgca agtataaaaa ttaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
tctagaggag gtatttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463

<213> Homo sapiens

tactccagcc	tggtgacaga	gcgagaccct	atcaccgccc	cccaccccac	caaaaaaaaa	60
actgagtaga	caggtgtcct	cttggcatgg	taagtcttaa	gtccccctcc	agatctgtga	120
catttgacag	gtgtcttttc	ctctggacct	cgggtgtccc	atctgagtga	gaaaaggcag	180
tggggagggtg	gatcttccag	tccaagcggg	atagaagccc	gtgtgaaaag	c	231

<213> Homo sapiens

gtactctaac	attttatcta	agttgccttt	tctgggtggg	aaagtttaac	cttagtgact	60
aaggacatca	catatgaaga	atgtttaagt	tggaggtggc	aacgtgaatt	gcaaacaggg	120
cctgcttcag	tgactgtgtg	cctgtagtcc	cagctactcg	ggagtctgtg	tgaggccagg	180
ggtgccagcg	caccagctag	atgctctgta	acttctaggc	cccatatttc	c	231

<213> Homo sapiens

catgttggtg	tagctgtggt	aatgctggct	gcatctcaga	caggggttaac	ttcagctcct	60
gtggcaaat	agcaacaaat	tctgacatca	tatttatggt	ttctgtatct	ttgttgatga	120
aggatggcac	aatttttgct	tgtgttcata	atatactcag	attagttcag	ctccatcaga	180
taaaactggag	acatgcagga	cattagggta	gtgttgtagc	tctggtaatg	a	231

<213> Homo sapiens

caggtagctc	tttccattgg	atactgtgct	agcaagcatg	ctctccgggg	tttttttaat	60
ggccttcgaa	cagaacttgc	cacataccca	ggtataatag	tttctaacat	ttgccagga	120
cctgtgcaat	caaataattg	ggagaattcc	ctagctggag	aagtcacaaa	gactataggc	180
aataatggag	accagtccca	caagatgaca	accagtcgtt	gtgtgcggct	g	231

<213> Homo sapiens

gtacaccctg	gcacagtcca	atctgaactg	gttcggcact	catctttcat	gagatggatg	60
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tgtgccttaa	cagaaggctc	tgagattcta	agtggggaatc	atttcagtga	ctgtcatgtg	180
gcatgggtct	ctgcccacac	tcgtaatgag	actatagcaa	ggcggctgtg	ggacgtcagt	240
tgtgacactgc	tgggcctccc	aatagactaa	caggcagctgc	cagttggacc	caagagaaga	300

ctgcagcaga c

311

<210> 468

<211> 3112

<212> DNA

<213> Homo sapiens

<400> 468

```

cattgtgttg ggagaaaaac agagggggaga tttgtgtggc tgcagccgag ggagaccagg 60
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tggaaggcac tggatgcctg atgatgaagt ggactttcaa actggggcac tactgaaacg 180
atgggatggc cagagacaca ggagatgagt tggagcaagc tcaataacaa agtgggttaa 240
cgaggacttg gaattgcatg gagctggagc tgaagttagt cccaattgtt tactagttag 300
gtgaatgtgg atgattggat gatcatttct catctctgag cctcaggttc cccatccata 360
aaatgggata cacagtatga tctataaagt gggatatagt atgatctact tcaactgggtt 420
atltgaagga tgaattgaga taattttattt caggtgccta gaacaatgcc cagattagta 480
catttgggtg aactgagaaa tggcataaca ccaaatttaa tatatgtcag atgttactat 540
gattatcatt caatctcata gttttgtcat ggcccaattt atcctcactt gtgcctcaac 600
aaattgaact gttaacaaag gaatctctgg tcctgggtaa tggctgagca ccactgagca 660
tttccattcc agttggcttc ttgggtttgc tagctgcata actagtcata ttaaataaat 720
gaagttttta catttctcca gtgatttttt tatctcacct ttgaagatac tatgttatgt 780
gattaaataa agaacttgag aagaacagggt ttcattaaac ataaaaatca tgtagacgca 840
aattttctgg atgggcaata cttatgttca caggaaatgc tttaaaatat gcagaagata 900
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ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg ttccttaaag gatgggcagg 1620
aaaacagatc ctgttgtgga tatltatttg aacgggatta cagatttgaa atgaagtcac 1680
aaagtgagca ttaccaatga gaggaaaaca gacgagaaa tcttgatggc ttcacaagac 1740
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gatctgtgaa caggctggga agcatctcaa gatctttcca gggttatact tactagcaca 2160
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tctgcctgag aagctcttcc ttgtctctta aatctagaat gatgtaaagt tttgaataag 2640
ttgactatct tacttcatgc aaagaaggga cacatatgag attcatcatc acatgagaca 2700
gcaaaacta aaagtgtaat ttgattataa gagtttagat aaatatatga aatgcaagag 2760

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aacctcatag tatcttatat aatatacttc atttctctat ctctatcaca atatccaaca 2880
agcttttcac agaattcatg cagtgcacaa ccccaaaggt aacctttatc catttcatgg 2940
tgagtgcgct ttagaatttt ggcaaatcat actggctact tatctcaact ttgagatgtg 3000
tttgtccttg tagttaattg aaagaaatag ggcactcttg tgagccactt taggggtcac 3060
tcctggcaat aaagaattta caaagagcaa aaaaaaaaaa aaaaaaaaaa aa 3112

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<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

```

agctctttgt aaattcttta ttgccaggag tgaaccctaa agtggctcac aagagtgcc 60
tatttctttc aattaactac aaggacaaac acatctcaaa gttgagataa gtgaccagta 120
tgatttgcca aaattctaaa gcgcactcac catgaaatgg ataaagggtta cctttgggga 180
tttgactgct atgaattctg tgaagagctt gttggatatt gtgatagaga tagagaaatg 240
aagtatatta tataagatac tatgaggttc cctgcctttg cttcacatcc caggcttaca 300
aacgtgcccc ataaacattc cctctgtggc tcttgcatth catatattta tctaaactct 360
tataatcaaa tacactttta gtatttgctg tctcatgtga tgatgaatct catatgtgtc 420
ccttctttgc atgaagtaag atagtcaact tattcaaaac ttacatcat tctagattta 480
agagacaagg aagagcttct caggcagaag gaataatgta tgcctgacat gttcaaggaa 540
ttacaagtta gattttgttt aggtgcatgg gaggggttga tggatgatgac agataaggct 600
ggaggggatg ggagaggctg tggctgtata cagcctcagt acaaggctaa gcattttaac 660
tttatactgg aaaaaaaatc aaacaaaggg gagggataaa ggacttagtc atctttgcac 720
tggaaaacaa aatatgtaat taaattccca tagctgcatg taacattgaa ttcttcagg 780
ttaaaaaaaa agttaatcct gtgatattaa tggaaatgaca tttgaggtc ttgagaatgg 840
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tgtcatcttg ctgtttctag tgatgttaat tatctccatt tcagcagatg tgtggcctca 1740
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ggtcacctga ggtcaggagt tcaagaccag cctggccaat atggtgaaac cccatctcta 2160
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aatggaatt 2229

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<210> 470

<211> 2426

<212> DNA
<213> Homo sapiens

<400> 470

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gtaaattctt tattgccagg agtgaaccct aaagtggctc acaagagtgc cctatttctt 60
tcaattaact acaaggacaa acacatctca aagttgagat aagtgaccag tatgatttgc 120
caaaattcta aagcgcactc accatgaaat ggataaagg tacccttggg gatttgcact 180
gcatgaattc tgtgaaaagc ttgttgata ttgtgataga gatagagaaa tgaagtatat 240
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ccataaacat tccctctgtg gctcttgcac ttcataatatt tatctaaact cttataatca 360
aattacactt ttagtatttg ctgtctcatg tgatgatgaa tctcatatgt gtcccttctt 420
tgcataagat aagatagtca acttattcaa aactttacat cattctagat ttaagagaca 480
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gggtgacggt tttgccaac acaatg

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<210> 471
<211> 812
<212> DNA
<213> Homo sapiens

<400> 471

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gaacaaaatg agtaatgtta ttctacagt tagaaaaggtc acagtacaga tctgggaact 60
aaatattaaa aatgagtgtg gctggatata tggagaatgt tgggcccaga aggaaccgta 120

```

```

gagatcagat attacaacag ctttgttttg aggggtagaa atatgaaatg atttggttat 180
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ccccagcttg gctgcctcat gtcatcacag tattecattt tgtttgttgc atgtcttgtg 300
aagccatcaa gattttctcg tctgttttcc tctcatttgt aatgctcact ttgtgacttc 360
atttcaaatc tgtaatcccg ttcaataaaa tatccacaac aggatctgtt ttctgcccc 420
tcctttaagg aacacatcaa ttcattttct aatgtccttc cctcacaagc gggaccaggc 480
acagggcgag gctcatcgat gacccaagat ggcggccggg catttctccc agggatctct 540
gtgcttcctt ttgtgcttcc tgtgtgtgtg gatatttaaa ggggctggaa atgtgcaaaa 600
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ccatttcagc agatgtgtgg cctcagatgg taaagtcagc agcctttctt atttctcacc 720
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cacaatatctc cctctgtgtt ttctgatgcc ag 812

```

<210> 472

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(515)

<223> n = A,T,C or G

<400> 472

```

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gttcagaat tattggctct tgcagcccg tgaatctcag caagaggaa caccaactga 180
caatcaggat attgaacctg gacaagagag agaaggaaca cctccgatcg aagaacgtaa 240
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ctctgatgta aaagagaaga ctccacctaa tcctaagcat gctaagacta aagaagcagg 360
agatgggcag ccataagtta aaaagaagac aagctgaagc tacacacatg gctgatgtca 420
cattgaaaat gtgactgaaa atttgaaaat tctctcaata aagtttgagt tttctctgaa 480
gaaaaaaaaa naaaaaaaaa aanaaaaaan aaaaa 515

```

<210> 473

<211> 5829

<212> DNA

<213> Homo sapiens

<400> 473

```

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tgcaacagcc tgagtggctg ccacctgata gctgatggag cagaggcctg aggaaaatca 180
gatggcacat ttagctcttt aatggatctt aagttaattt ttctataaag cacatggcac 240
cagtcacatg ctcatagctc gtatggcact gcgaccaca gcaggccgag ttcccaggat 300
tgccatccag gggggccttc tgtagccctg gccagacctt gcagaggtgg ctgggtgctc 360
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<210> 474
<211> 1594
<212> DNA
<213> Homo sapiens

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<210> 475

<211> 2414

<212> DNA

<213> Homo sapiens

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<400> 475

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<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens
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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
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His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
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His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
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Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
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Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
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<210> 478
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 478
 Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15
 Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30
 Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80
 Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
 85 90 95
 His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
 100 105 110
 Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
 115 120 125
 His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
 130 135 140

<210> 479
 <211> 222
 <212> PRT
 <213> Homo sapiens

<400> 479
 Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15
 Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30
 Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45
 His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60
 Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr

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65						70						75						80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser			
				85					90					95				
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val			
			100					105					110					
Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	Thr	Asp	Thr	Gln	Asn	Thr	Val			
		115					120					125						
Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	Pro	Pro	His	Gly	His	Ser	Thr			
	130					135					140							
Arg	His	Ser	Ala	Thr	Gln	Ile	His	His	His	Thr	Glu	Met	Arg	Thr	His			
145					150				155						160			
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala			
				165					170					175				
Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp			
			180					185					190					
Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala			
		195					200					205						
Arg	Leu	Cys	Leu	Lys	Lys	Arg	Lys	Lys	Lys	Gln	Tyr	Thr	Val					
	210					215					220							
<210> 480																		
<211> 144																		
<212> PRT																		
<213> Homo sapiens																		
<400> 480																		
Met	Glu	Pro	Tyr	Arg	Gly	Asn	Glu	Gln	Pro	Ser	Gln	Glu	Gln	Gly	Val			
				5					10					15				
Cys	Cys	Leu	Trp	Gly	Leu	Gln	Ser	Leu	Pro	Gln	Gly	Ser	Tyr	Val	Thr			
			20					25					30					
Val	Gly	Phe	Leu	Val	Val	Lys	Arg	Gln	Thr	Ile	Gly	Arg	Leu	Glu	Arg			
		35					40					45						
Asp	Phe	Met	Phe	Lys	Cys	Arg	Lys	Gln	Pro	Gly	Leu	Pro	Pro	Ser	Gly			
	50					55					60							
Leu	Cys	Leu	Leu	Trp	Pro	Trp	Pro	Asn	Leu	Glu	Phe	Gly	Arg	Arg	Gln			
65					70					75					80			
Asp	Arg	Leu	Thr	Trp	Ser	Ser	Val	Ser	Val	Ala	Gly	Val	Cys	Ala	Cys			
				85					90					95				

Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110

Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15

Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30

Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45

Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60

Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80

Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95

Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110

Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125

Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140

Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160

Trp Leu Ser Arg Gly Arg Pro
 165

<210> 482


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<400> 482
Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val
      5      10      15

Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
      20      25      30

Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
      35      40      45

Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
      50      55      60

Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
      65      70      75      80

Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
      85      90      95

Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
      100      105      110

Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
      115      120      125

Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
      130      135      140

```

```

<400> 483
Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
      5                      10                      15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
      20                      25                      30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
      35                      40                      45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
      50                      55                      60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
      65                      70                      75                      80

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<400> 487

36

<220>
<223> Made in a lab

33

<220>
<223> Made in a lab

<220>
<223> Made in a lab

<220>
<223> Made in a lab

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      <400> 491
Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
  1          5          10          15
Thr Gly Phe Thr
      20

```



```

1           5           10           15
Phe Pro Asn Gly
20

<210> 496
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 496
Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1           5           10           15
Pro Pro Pro Pro Ala
20

<210> 497
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 497
Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
1           5           10           15
Ser Val Arg Val
20

<210> 498
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 498
Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala Arg Val
1           5           10           15
Val Pro Gly Arg
20

<210> 499
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

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<400> 499
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 1 5 10 15
 Ser Ala Phe Leu
 20

<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 500
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1 5 10 15
 Gly Ser Ile Val
 20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 501
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1 5 10 15
 Val Ser Ala Ala
 20

<210> 502
 <211> 414
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n=A,T,C or G

<400> 502
 caccatggag acaggcctgc gctggctttt cctggctcgt gtgctcaaag gtgtccaatg 60
 tcagtccgtg gaggagtccg ggggtcgct ggtcacgcct gggacacctt tgacantcac 120
 ctgtagagtt tttggaatng acctcagtag caatgcaatg agctgggtcc gccaggctcc 180
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240
 gaaaggccga ttnatnattt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
 gacaaccgag gacacggcca cctatTTTTg tggcagaatg aatactggta atagtggttg 360
 gaagaatatt tggggcccag gcaccctggt caccgtntcc tcagggaac ctaa 414

<210> 503

100250113500

<400> 503

<220>
<223> Made in a lab

<400> 504

<220>
<223> Made in a lab

<400> 505

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<210> 506
<211> 407
<212> DNA
<213> Homo Sapien
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<400> 506

atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaaggtgt ccagtgtcag 60

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tcgctggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgc 120
accgtctctg gattctccct cagtagcaat gcaatgatct gggcccgcca ggctccaggg 180
aaggggctgg aatacatcgg atacattagt tatggtggta gcgcatacta cgcgagctgg 240
gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgattt tagtggtatg 360
ttgtggggcc caggcacccct ggtcaccgtc tcctcagggc aacctaa 407

```

```

<210> 507
<211> 422
<212> DNA
<213> Homo Sapien

```

```

<400> 507
atggagacag gcctgcgctg gcttctcctg tgcgtgtgct tcaaagggtg ccagtgtcag 60
tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
acagtctctg gattctccct cagcaactac gacctgaact gggcccgcca ggctccaggg 180
aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
gcaaaaggcc ggttcaccat ctccaaaacc tcgaccacgg tggatctcaa gatcgccagt 300
ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
ggtcctgtgt tgcgcatctg gggcccaggc accctgggtc ccgtctcctt agggcaacct 420
aa 422

```

```

<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

```

```

<220>
<221> misc_feature
<222> (1)...(411)
<223> n=A,T,C or G

```

```

<400> 508
atggagacag gcctgcgctg cttctcctgg tgcgtgtgct caaagggtgc cagtgtcagt 60
cgggtgaggga gtccgggggt cgctcgtgca cgctgggac acccctgaca ctcacctgca 120
cagtctcttg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg 180
aggggctgga atggatcggg atcattggta ctctcgtgta cacatactac gcgaggtggg 240
cgaaaaggcc attcaccatc tccaaaacct cgaccacggg gcatntgaaa atcnccagtc 300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g 411

```

```

<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

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```

<220>
<223> Made in a lab

```

```

<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1           5           10           15

```

```

<210> 510

```


<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 519
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg Asn Tyr Asp Glu Gly Cys
 1 5 10 15
 Gly

<210> 520
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 520
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly
 20 25

<210> 521
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 521
 Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 522
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 522
 Leu Leu Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp
 1 5 10 15
 Phe Thr Gln Val

```
<210> 523
<211> 254
<212> PRT
<213> Artificial Sequence
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<220>
<223> Made in a lab

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<220>  
<221> VARIANT  
<222> (1)...(254)  
<223> Xaa = any amino acid
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	<400> 523														
Met 1	Ala	Thr	Ala	Gly 5	Asn	Pro	Trp	Gly 10	Trp	Phe	Leu	Gly 15	Tyr	Leu 15	Ile
Leu	Gly	Val	Ala 20	Gly	Ser	Leu	Val 25	Ser	Gly	Ser	Cys	Ser 30	Gln	Ile	Ile
Asn	Gly	Glu 35	Asp	Cys	Ser	Pro 40	His	Ser	Gln	Pro	Trp 45	Gln	Ala	Ala	Leu
Val	Met 50	Glu	Asn	Glu	Leu 55	Phe	Cys	Ser	Gly	Val 60	Leu	Val	His	Pro	Gln
Trp 65	Val	Leu	Ser	Ala 70	Thr	His	Cys	Phe	Gln 75	Asn	Ser	Tyr	Thr	Ile 80	Gly
Leu	Gly	Leu	His 85	Ser	Leu	Glu	Ala	Asp 90	Gln	Glu	Pro	Gly	Ser 95	Gln	Met
Val	Glu	Ala 100	Ser	Leu	Ser	Val	Arg 105	His	Pro	Glu	Tyr	Asn 110	Arg	Pro	Leu
Leu	Ala 115	Asn	Asp	Leu	Met	Leu 120	Ile	Lys	Leu	Asp	Glu 125	Ser	Val	Ser	Glu
Ser	Asp 130	Thr	Ile	Arg	Ser 135	Ile	Ser	Ile	Ala	Ser	Gln 140	Cys	Pro	Thr	Ala
Gly 145	Asn	Ser	Cys	Leu 150	Val	Ser	Gly	Trp	Gly 155	Leu	Leu	Ala	Asn	Gly 160	Arg
Met	Pro	Thr	Val 165	Leu	Gln	Cys	Val	Asn 170	Val	Ser	Val	Val	Ser 175	Glu	Glu
Val	Cys	Ser 180	Lys	Leu	Tyr	Asp	Pro 185	Leu	Tyr	His	Pro	Ser 190	Met	Phe	Cys
Ala	Gly 195	Gly	Gly	Gln	Xaa	Gln 200	Xaa	Asp	Ser	Cys	Asn 205	Gly	Asp	Ser	Gly
Gly	Pro 210	Leu	Ile	Cys	Asn 215	Gly	Tyr	Leu	Gln	Gly 220	Leu	Val	Ser	Phe	Gly
Lys 225	Ala	Pro	Cys	Gly 230	Gln	Val	Gly	Val	Pro 235	Gly	Val	Tyr	Thr	Asn	Leu
Cys	Lys	Phe	Thr 245	Glu	Trp	Ile	Glu	Lys 250	Thr	Val	Gln	Ala	Ser		

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<210> 524
<211> 765
<212> DNA
<213> Homo sapien
```



```

<400> 527
Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
      5                      10                      15

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
      20                      25                      30

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
      35                      40                      45

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
      50                      55                      60

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
      65                      70                      75                      80

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
      85                      90                      95

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
      100                      105                      110

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
      115                      120                      125

```


<212> DNA
<213> Homo sapiens

<400> 530

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ggcacgagaa ttaaaaccct cagcaaaaca ggcatagaag ggacatacct taaagtaata 60
aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120
tttctctga gaactgcaac aataaataca aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
ctgcggcagc ttcgggataa cttgaggctg catcactggg gaagaaacac aytccctgtcc 360
gtggcgctga tggctgagga cagagcttca gtgtggcttc tctgcgactg gcttcttcgg 420
ggagttcttc cttcatagtt catccatag gctccagagg aaaattatat tttttgtta 480
tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctct tgatgtgtga 540
ttgggtaggt tccaccatgt tgccgcagat gacatgattt cagtacctgt gtctggctga 600
aaagtgtttg tttgtgaatg gatattgtgg tttctggatc tcatcctctg tgggtggaca 660
gctttctcca ccttgctgga agtgacctgc tgtccagaag tttgatggct gaggagtata 720
ccatcgtgca tgcactcttc atttcctgca tttcttctc cctggatgga cagggggagc 780
ggcaagagca acgtgggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840
agcaagaggt gcaagtgggt ctgccactgc ttcccctgct gcagggggag cggcaagagc 900
aacgtggtcg cttggggaga ctacgatgac agcgccctca tggatcccag gtaccacgtc 960
catggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt ccccagaaag 1020
gatctcatcg tcatgctcag ggacacggat gtgaacaaga gggacaagca aaagaggact 1080
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgacaaa ggccgtacaa 1200
tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaacag caagtgggtg aatttttaat caagaaaaaa 1440
gcgaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
ggatcagcaa gtatagtcag cctctacttt gagcaaaatg ttgatgtatc ttctcaagat 1560
ctggaagac ggccagagag tatgctgttt ctagtcatca tcatgtaatt tgccagttac 1620
tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaaaggct taaaggaggt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacggtg ccgctgctgg caatggtgat ga 1852

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<210> 531
<211> 879
<212> DNA
<213> Homo sapiens

<400> 531

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atgcactctt catttctgc atttcttct ccctggatgg acagggggag cggcaagagc 60
aacgtgggca cttctggaga ccacaacgac tcctctgtga agacgcttg gagcaagagg 120
tgcaagtgtt gctgccactg cttcccctgc tgcaggggga gcggcaagag caacgtggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tgggttaaag tccccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttcagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgttaatgtt gctggaacat ggcaactgat caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
gggtatacatg agcaaaaaa gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720

```


aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
 agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
 cggccagaga gtatgctgtt tctagtcata atcatgtaa 879

<210> 532

<211> 292

<212> PRT

<213> Homo sapiens

<400> 532

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
 5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
 20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
 35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
 50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
 65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
 85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
 100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
 115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
 130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
 145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
 165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
 180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
 195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
 210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu
 225 230 235 240

00005011:0529001

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
245 250 255

65 70 75 80
 Pro Trp Pro Asp Ile Glu Phe Val Pro Arg Gln Asp Lys Leu Thr Gln
 85 90 95
 Ser Ser Val Leu Val Pro Gln Ile Cys Ala Cys Gln Thr Arg Pro Asn
 100 105 110
 Trp Leu Asn Glu Gln Pro Ala Thr Ser Ala Gly Val Arg Leu Glu Glu
 115 120 125
 Val Asp Gln Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys
 130 135 140
 Ser His Ser Leu Ser Gly Cys His Leu Met Ala Asp Ile Ala Lys Ala
 145 150 155 160
 Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr
 165 170 175
 Asp Val Pro Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser
 180 185 190
 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
 195 200 205
 Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
 210 215 220
 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
 225 230 235 240
 Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu
 245 250 255
 Trp Ala Ser Trp Leu Pro Arg Gly Arg Pro
 260 265

<210> 535

<211> 6082

<212> DNA

<213> Homo sapiens

<400> 535

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USA	1991	25-34	M	179.5	82.5	25.9	93.5	103.5	0.90
USA	1991	35-44	M	178.5	85.5	27.2	95.5	105.5	0.90
USA	1991	45-54	M	177.5	88.5	28.5	97.5	107.5	0.90
USA	1991	55-64	M	176.5	91.5	29.8	99.5	109.5	0.90
USA	1991	65-74	M	175.5	94.5	31.1	101.5	111.5	0.90
USA	1991	75-84	M	174.5	97.5	32.4	103.5	113.5	0.90
USA	1991	85-94	M	173.5	100.5	33.7	105.5	115.5	0.90
USA	1991	95-104	M	172.5	103.5	35.0	107.5	117.5	0.90
USA	1991	105-114	M	171.5	106.5	36.3	109.5	119.5	0.90
USA	1991	115-124	M	170.5	109.5	37.6	111.5	121.5	0.90
USA	1991	125-134	M	169.5	112.5	38.9	113.5	123.5	0.90
USA	1991	135-144	M	168.5	115.5	40.2	115.5	125.5	0.90
USA	1991	145-154	M	167.5	118.5	41.5	117.5	127.5	0.90
USA	1991	155-164	M	166.5	121.5	42.8	119.5	129.5	0.90
USA	1991	165-174	M	165.5	124.5	44.1	121.5	131.5	0.90
USA	1991	175-184	M	164.5	127.5	45.4	123.5	133.5	0.90
USA	1991	185-194	M	163.5	130.5	46.7	125.5	135.5	0.90
USA	1991	195-204	M	162.5	133.5	48.0	127.5	137.5	0.90
USA	1991	205-214	M	161.5	136.5	49.3	129.5	139.5	0.90
USA	1991	215-224	M	160.5	139.5	50.6	131.5	141.5	0.90
USA	1991	225-234	M	159.5	142.5	51.9	133.5	143.5	0.90
USA	1991	235-244	M	158.5	145.5	53.2	135.5	145.5	0.90
USA	1991	245-254	M	157.5	148.5	54.5	137.5	147.5	0.90
USA	1991	255-264	M	156.5	151.5	55.8	139.5	149.5	0.90
USA	1991	265-274	M	155.5	154.5	57.1	141.5	151.5	0.90
USA	1991	275-284	M	154.5	157.5	58.4	143.5	153.5	0.90
USA	1991	285-294	M	153.5	160.5	59.7	145.5	155.5	0.90
USA	1991	295-304	M	152.5	163.5	61.0	147.5	157.5	0.90
USA	1991	305-314	M	151.5	166.5	62.3	149.5	159.5	0.90
USA	1991	315-324	M	150.5	169.5	63.6	151.5	161.5	0.90
USA	1991	325-334	M	149.5	172.5	64.9	153.5	163.5	0.90
USA	1991	335-344	M	148.5	175.5	66.2	155.5	165.5	0.90
USA	1991	345-354	M	147.5	178.5	67.5	157.5	167.5	0.90
USA	1991	355-364	M	146.5	181.5	68.8	159.5	169.5	0.90
USA	1991	365-374	M	145.5	184.5	70.1	161.5	171.5	0.90
USA	1991	375-384	M	144.5	187.5	71.4	163.5	173.5	0.90
USA	1991	385-394	M	1					

Figure 1 consists of 12 micrographs arranged in a vertical column, labeled 1.5, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48, and 72 hours of incubation. The images show the progressive development of the chick embryo eye. At 1.5 hours, a small, dark, undifferentiated spot is visible. By 3 hours, the spot is slightly larger and more defined. At 6 hours, the spot is larger and shows some internal structure. By 9 hours, the spot is larger and more complex. At 12 hours, the spot is larger and more complex. At 18 hours, the spot is larger and more complex. At 24 hours, the spot is larger and more complex. At 30 hours, the spot is larger and more complex. At 36 hours, the spot is larger and more complex. At 42 hours, the spot is larger and more complex. At 48 hours, the spot is larger and more complex. At 72 hours, the spot is larger and more complex.

[illegible]

[illegible]

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 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
 1185 1190 1195 1200
 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
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 35 40 45
 Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
 50 55 60
 Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
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 Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
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 Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
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 Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
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 His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
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 Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
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 165 170 175
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F00230: F00230

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Phe	Thr	Asp	Ala	Arg	Ile	Arg	Thr	Met	Asn	Glu	Val	Ile	Thr	Gly	Ile		
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Arg	Ile	Ile	Lys	Met	Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile		
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Leu	Arg	Gly	Met	Asn	Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile		
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Val	Phe	Val	Thr	Phe	Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr		
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Ala	Ser	Arg	Val	Phe	Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu		
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Thr	Val	Thr	Leu	Phe	Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala		
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Ile	Val	Ser	Ile	Arg	Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile		
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[illegible]

[illegible]

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Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp		
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1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn		
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Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr		
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1220	1225	1230
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<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

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Gln Ala

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Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
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Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
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                20                      25                      30  
  
Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met  
        35                      40                      45  
  
Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg  
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          20                      25                      30

Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
          35                      40                      45

Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
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atacctgcaa ctgagctggc aaaaagaaaa ctaggcaagt atgacagata catgatgcac 3120
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aagtttctac ttgagcagct agaagactac aatgccactc atcaaaacag tgactcaggg 3240
ggagtatttg ggataaagga ggaatctgat gttggaggtc aaatttgaag tgtctttaag 3300
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cagcacagca gctgacatcc tgtgtgacag ccttgaaagc agcaggcccg ccgctcacat 3420
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ttcagaactg gaaaaatgct ttaatttttg ctttgtcatg attattaaaa cactctgtac 4740
attttttatt attgaaatta acacattgcc tactttttta aaattggaaa aagaaaaaaa 4800
aaaaaaaaa 4809

```

<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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aaaattgaat attgagatac cattcttttag tgttaccttt tttaccacac tgtgtttctg 60
aaaatattgg aatttttattc atcttaaaaa ttggaccggy ccttattttac catctttaat 120
ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaatc ttcagaaagt 180
tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
gtgcggtgcc acaatcttgg ctactgcaa cctctgagtc ccaggttcaa gcgatactca 300
tgccctggcc tcctgagtag ctgggactac aggcgtgcac caccacatct ggctaattct 360
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ccgcctgcct cccaaagtgc tgggattaca ggcattgagc accgcacaca gctgggactg 480
ggtaatttat aaagaaaaga ggtttaatga ctacagttc cgcatggctg gagaggcctc 540
aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtggc 600
aggagagaac gagtgagggg ggagactgcc acaaactttt tttttttgag acaagagtct 660
ggccctgttg cccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
cacaggttca agcaattctc atgcctcagc ctccgcata gctgggacca caggtatgca 780
ccaccacacc tagctaattt ttgtagtttt agtagagatg gggctctcact atgttgctca 840

```

ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgctgg 900
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaacta t 951

<210> 571
 <211> 819
 <212> DNA
 <213> Homo sapiens

<400> 571
 cagcttaaaa atggtttctt gaaatcagtg attagcattc actcaccagt acccctacta 60
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 ttattgcttt tgttgcaaat gccgtggctt catctgagga attctagaat tcagaggggtg 180
 tagccctcca ctctgctgtc ttgctatctg ctctcattgc atccgtttaa cctgcattct 240
 gaaagatgtt tctcaggttt ttcttgcagc attttcttct tttctgattc tgacaatgtt 300
 ttaaatacatt gtactgtggg tatcatttct ctgcatttat ttaccaccatc ttcttttgta 360
 acttgctcta ttgtctttta atttctgcct gttctttatg gctttcaact tcataaataa 420
 catgttttct caaatctctt tgtgaattcc agagagggcc aggcacgggtg gctcacatct 480
 gtaatcccag cactttgggg aggctgagac ggggtgatca cttgagggtc ggagtttgag 540
 accagcctgg ccaacatggt gaaatcccgt ttactaaaa atacaaaaat taccaggga 600
 tgggtggcggg cgctgtaat ccaggtact cgggaggctg agggaggaga atcgcttgaa 660
 cctgggagggc tgaggaggga gaatcgcttg aaccggggag gcagaggttg cagtgaaccg 720
 agatcatgtt gctgcactcc agcctgggtc acagagcaag actctgcctc aaaaacaaac 780
 aaataaacia acaaacaac aaaacagaga gattttgct 819

<210> 572
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 572
 tatagaatac tcaagctatg catcaagctt ggtaccgagc tcggatccac tatttacggc 60
 cgccagtgtg ctggaattcg cccttagctc ggatccacta gtccagtgtg gtggaattcc 120
 attgtgttgg gcccaacaca atggagccac cacatccagc ctgccacata cttttaaaact 180
 atcaggtctc atgagaactc atg 203

<210> 573
 <211> 132
 <212> PRT
 <213> Homo sapiens

<400> 573
 Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
 5 10 15
 Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
 20 25 30
 Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
 35 40 45
 Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60
 Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala

```

<210> 574
<211> 62
<212> PRT
<213> Homo sapiens

<400> 574
Met Thr His Ser Ser Ala Trp Leu Glu Arg Pro Gln Glu Thr Tyr Asn
              5                      10                      15

His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
              20                      25                      30

Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
              35                      40                      45

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
              50                      55                      60

```

```

<210> 575
<211> 76
<212> PRT
<213> Homo sapiens

<400> 575
Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
          5              10              15
Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
          20              25              30
Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
          35              40              45
Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
          50              55              60
Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
          65              70              75

```

```

<400> 576
Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr
      5              10              15

Thr Val Cys Tyr Leu Ala Ser Ser Ser Ala Ser Arg Glu Thr Ala Thr
      20              25              30

Arg Gln Ala Pro Gly Asn Trp Lys Met Xaa Ser Lys Cys His Ala Gln
      35              40              45

Leu Leu Phe Thr Phe Tyr Leu Asn His Phe Tyr Gln Ile Arg Leu Asn
      50              55              60

Pro Gly Tyr Ser
65

```

```

<400> 577
Met Tyr Leu Glu Asn Ser Phe Tyr Cys Gln Met Ile Leu Leu Lys Arg
      5              10              15

Cys Arg Leu Ser Lys Ile Ser Thr Gln Arg Val Val Pro Asp Gly Pro
      20              25              30

Pro Ala Pro Val Pro Gly Ser Phe Pro Met Phe Pro Arg Phe Gly Phe
      35              40              45

Arg Leu Ala Pro Pro Ala Asp Thr Pro
      50              55

```

<400> 578


```

<400> 583
Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
              5              10              15

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
              20              25              30

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly

```

35 40 45
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 50 55 60

 <210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

 <400> 584
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

 <210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

 <400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15

 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30

 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45

 Leu Phe
 50

 <210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

 <400> 586
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly

F06290-1256360

```
<210> 587
<211> 1408
<212> DNA
<213> Homo sapiens
```

```
<210> 588
<211> 81
<212> PRT
<213> Homo sapiens
```

```

<400> 588
Met  Pro  Gln  Lys   Gln  Gln  Asn  Ser  Gln  Thr  Glu  Ala  Lys  Tyr  Arg  Ala
                        5                      10                      15

Leu  Gln  Phe  Arg   Gln  Tyr  Asn  Lys  Ser  Val  His  Glu  Val  Asn  Leu  Lys
                        20                      25                      30

```

```
<210> 589
<211> 157
<212> PRT
<213> Homo sapiens

<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
      5                               10                          15

Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
      20                                25                        30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
      35                                40                        45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
      50                              55                          60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
      65                              70                          75                        80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
      85                              90                          95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
      100                             105                         110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
      115                             120                         125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
      130                             135                         140

Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
      145                             150                         155
```

```
<210> 590
<211> 347
<212> PRT
```

<400> 590

Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
260 265 270

Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
275 280 285

Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591
<211> 565
<212> DNA
<213> Homo sapien

<400> 591
actaaagcaa atgaacaagc tgacttgcta gtatcatctg cattcattga agcacaagaa 60
cttcatgcct tgactcatgt aaatgcaata ggattaaaaa ataaatttga tatcacatgg 120
aaacagacaa aaaatattgt acaacattgc acccagtgtc agattctaca cctggccact 180
caggaagcaa gagttaatcc cagaggtcta tgcctaata tgttatggca aatggatgtc 240
atgcacgtac cttcatttgg aaaattgtca tttgtccatg tgacagttga tacttattca 300
cattcatat gggcaacctg ccagacagga gaaagtactt cccatgttaa aagacattta 360
ttatcttggt ttctgtcat gggagttcca gaaaaagtta aaacagacaa tgggccaggt 420
tactgtagta aagcatttca aaaattctta aatcagtggg aaattacaca tacaatagga 480
attctctata attcccaagg acaggccata attgaaggaa ctaatagaac actcaaagct 540
caattggtta aacaaaaaaaa aaaaa 565

<210> 592
<211> 188
<212> PRT
<213> Homo sapien

<400> 592
Thr Lys Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile
1 5 10 15
Glu Ala Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu
20 25 30
Lys Asn Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln
35 40 45
His Cys Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg
50 55 60
Val Asn Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val
65 70 75 80
Met His Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val
85 90 95
Asp Thr Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser
100 105 110

110550-115550

```

Thr Ser His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly
      115                      120                      125
Val Pro Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys
      130                      135                      140
Ala Phe Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly
145                      150                      155                      160
Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
      165                      170                      175
Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
      180                      185

```

<210> 593

<211> 271

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(271)

<223> n = A,T,C or G

<400> 593

```

actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant      60
tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggg      120
gtccctagct ggggtctata catgncnggg naagggcngc tgagtnccat nagcaaagga      180
nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatccntn gatccactcc      240
angaanccng gggtagncag gtttnccaac a                                271

```

<210> 594

<211> 376

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(376)

<223> n = A,T,C or G

<400> 594

```

cctttggggg nggggggaac ctttaccatt gtnccccttt atttcatttg gttnggggttc      60
gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc      120
cgattaagcg ncaaattgtg agcaaaaangc cgtgccactt gtggcgtagc tncgtcgggt      180
cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag      240
cccacgangg nttcgtgtcg tcacatggnc tctagacata acgcncncn ttttttncag      300
aggggngtgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc      360
ccattgaaga aaaggn

```

<210> 595

<211> 242

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

F00294.F00294

<222> (1)...(242)
 <223> n = A,T,C or G

<400> 595
 agnctgctgn tcgtgccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60
 tgnngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tгнаanggggt 120
 atgccangag cangtgcacc agtcccaact angagncccn ggcatgntac atcttcttcc 180
 acccctnaaa ntttnggcta caangnccat ttttcttttt ctcttaaggg ncncttggtc 240
 tc 242

<210> 596
 <211> 535
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(535)
 <223> n = A,T,C or G

<400> 596
 accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatattt 60
 gaaagctttt taaatttttt ctttaagaag attttagatg cttatcactg agtaccagag 120
 ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180
 ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctgggtg 240
 gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300
 tcctggtgct gaccaggggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360
 gcagtggccc ctttccatcc aacttgaac tatttcagta ttttaccacc aattcagcca 420
 ttcccttggtg cgctggctga acatcagccc tgctccaggt ctcatgttcc cctttgtaaa 480
 gggaaagctc tgatttcagg gagtgatgaa gaggtcatca tgggtcttgag aattc 535

<210> 597
 <211> 257
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(257)
 <223> n = A,T,C or G

<400> 597
 tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60
 tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120
 attnctctta agatnngatn agaccccggt tttcacggaa catatccaag naccaatag 180
 gnaacaagcc acggngggag tcacaaacat atattcttta ctctcataat ccgtnnccaa 240
 naactnttgn acttgac 257

<210> 598
 <211> 222
 <212> DNA
 <213> Homo sapien

<220>

CCDS: F05566.1


```

tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcathtag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataathtt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagtttag taactcaaaa cgagtgcac tnggaagtat cgcagccgtt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccngg ggnaaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct 420
nnagcaaggc nggganttg ggactcgaaa tggtagagtt gggctgggga tcgcccttgt 480
tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcct 540
tgccatt 547

```

```

<210> 602
<211> 826
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

```

```

<400> 602
cggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
taccattcga gtcctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
gaacaatgcg aaagcgtttt cttccctagg ctgcagattg tcttcttcac cgcccctgct 180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca 240
ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360
atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
caggttttca ncctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
gcttttacia atcatttttc tcttctaggat atagcctgtc aggtggccta atgtattttt 540
gacatctcta ggaattttta tagaccagaa atgggtgcca gagatatgcc tgcactaatc 600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga ataccaagc 780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

```

```

<210> 603
<211> 817
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G

```

```

<400> 603
nnangacttt tgtggtnnta tacaattntt ttttctatth ctatgaagag aaagccacag 60
agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
tcgtgcctag ttttgcttta atcacttgct tgagaaaata ataaatcccc acttaagatt 180
agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgcctc 420

```

atttagctct	gatgagta	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcatactagg	aggtatcgca	agccgtttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcagggggc	ggnaaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttctctanaa	caaggcngaa	ttgggactcg	aatgggtcag	720
ttgggggtggg	ggatccccctg	gtncataaaa	ngtcanaaaag	anggtacagg	cggaaaccca	780
agggtcgtcc	tgcattttana	ctcggaattt	tggtgcc			817

```
<220>
<221> misc_feature
<222> (1)...(694)
<223> n = A,T,C or G
```

```
<210> 605
<211> 678
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G
```

<400>	605						
taaaaatcta	gactacacta	ggaaattatt	ttantatcag	aagaatatca	ggggtgtagt		60
actcatcana	gctaaatgag	agcgctttaa	aatgtgtagt	ttgtcttccg	ccatttctac		120
agaaagctgc	aatttcaggt	tttcaaccta	ataggtgata	tttaagaaaa	aaaaaaagca		180
atcgcaata	gccccatttc	ttttacaaat	cattttttct	cttctaggta	tagcctgtca		240
ggtggcctaa	tgtaattttc	gacatctcta	ggaattttta	tagaaccaga	aatgggtgcc		300
agagatatgc	ctgcactaat	cttaagtggg	gatttatgta	tttctcaagc	aagtgattaa		360
agcaaaacta	ggcacgattg	aatcaanat	cttttaggca	agaaagtcac	gatgagtttt		420
anaattattt	taggactctg	tggctttctc	ttcatagaaa	tagaaaaaaa	aaattgtata		480
aaaaccacaa	aaggctctga	atagcccaaa	gcaacactga	acaaaangaa	caaagcagga		540
agcaaccacac	taccggaatt	caattatact	accaaggtgt	antaacccaa	acagcattct		600
attqqqcata	aaataqacca	aagaccagtq	qaaacacaga	taaaqaancc	caaaataaat		660

678

```
<220>  
<221> misc_feature  
<222> (1)...(263)  
<223> n = A,T,C or G
```

```
<210> 607
<211> 22
<212> DNA
<213> Artificial Sequence
```

```
<400> 607
ccatgtgggt cccggttgtc tt
```

<220>
<223> Primer

```
<400> 608
gataggggtg ctcaggggtt gg                22
```

<220>
<223> Primer

<400> 609
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

$$\begin{aligned} \langle 210 \rangle & 610 \\ \langle 211 \rangle & 27 \end{aligned}$$

<210> 615

53

<211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
 gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616
 <211> 1350
 <212> DNA
 <213> Homo sapien

<400> 616
 atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccgca ctgcagccc 60
 tggcaggcgg cactgggtcat ggaaaacgaa ttgttctgct cgggcgctcct ggtgcatccg 120
 cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180
 cacagtcttg aggccgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
 cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagttggac 300
 gaatccgtgt ccgagttctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
 gcggggaaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
 gtgctgcagt gcgtgaacgt gtcggtgggt tctgaggagg tctgcagtaa gctctatgac 480
 ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc 540
 aacggtgact ctgggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
 ggaaaagccc cgtgtggcca agttggcgtg ccagggtgct acaccaacct ctgcaaattc 660
 actgagtggg tagagaaaac cgtccaggcc agtattgtgg gaggctggga gtgcgagaag 720
 cattcccaac cctggcaggt gcttgtggcc tctcgtggca gggcagttct cggcgggtgtt 780
 ctgggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgac 840
 ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccaggtatt tcaggtcagc 900
 cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
 ggtgatgact ccagccacga cctcatgctg ctccgctgt cagagcctgc cgagctcacg 1020
 gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080
 gcctcaggct ggggcagcat tgaaccagag gaggttcttga ccccaaagaa acttcagtgt 1140
 gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtgacc 1200
 aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaaccatgt 1260
 gccctgcccg aaaggccttc cctgtacacc aaggtggtgc attaccggaa gtggatcaag 1320
 gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
 <211> 449
 <212> PRT
 <213> Homo sapien

<400> 617
 Met His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro
 1 5 10 15
 His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
 20 25 30
 Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
 35 40 45
 Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
 50 55 60

Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
 65 70 75 80
 Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
 85 90 95
 Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
 100 105 110
 Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618

ctgtgctgag	aacccaaaagc	tatgancact	gctttttccaa	atgtccataa	naccaacatt	60
tttatcaacta	ccaccatcac	ctgggagctc	nttagaaaagc	tagtctcccg	ggcaccaccc	120
tggcctactg	aacctaatgt	gcatttaaca	agattnacgt	ngaaatctgc	aaagcacagg	180
ggcngataac	agtaccacct	gntctgggtc	ctanccccan	gacccttaca	gtctaactgg	240
gacacaaggg	cttnaaatca	aattgcctat	cattaagata	tacaanganc	ntgagaaact	300
gctncactta	tntattaagg	ngctctaaga	cttagaaacn	aaangcantg	ctgagangat	360
tcaaatatga	ngggggncac	tttnc				385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619

gatatcccg	gaattcgcg	ccgcgtcgac	ctctacttgt	ttagacataa	atgcagtcta	60
gcattaaaga	tccttttaaaa	aaatgttttc	ccaatggtta	aaagacaagc	tcaaataaat	120
gaactctcat	acatatgcc	aaattgatga	gtagataaat	atttcagtag	gtagttacta	180
gctttctgtg	tatgagtaaa	catatgggag	aaatttaaaa	cactaaagta	gactcaatga	240
aagcatagta	tcctatgtat	tcgtttttca	gaaatgtcta	atgaaggaag	gaaacaatga	300
atgaatgcc	ttattcctct	tagagtgctg	ggacatgggt	ttgcctgaaa	acttcatgtg	360
aattttatat	tttgctacac	attacaccca	tcttagactt	atacgtataa	gacataaggc	420
atatcttatg	tcttacatgt	ataataatct	aagcagaaca	aaaaataacg	aaatattttc	480
ttccccaaat	ttttgagaca	gatggatttt	ccggaaaagat	gtgttttagct	tttaatcctg	540
tggttttgtg	taccacctgg	cacactagag	tggtgctcta	attcagtgag	ttgtaactct	600
gggtgaacag	tggaataact	agggtacatt	ttaaaaatgc	taatgctcgg	gcctcgctga	660
agaccaaaatt	aattggaatc	tctgngggng	gnattgatct	ttttataatc	tttctanang	720
attctaattg	gcttccagg	atgaaaaccn	ctgntggagc	tnggaacctt	cctttagttt	780
ggagaaaccc	cgatgagggt	ntnttaggcn	ccgcctnttt	ttggcctggg	cttccccctt	840
tatntntntt	tggaanggnc	cnaattttt				869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620


```
<210> 621
<211> 267
<212> DNA
<213> Homo sapien
```

<400>	621						
ggggngcatg	gtcccnngta	gccaaagtaca	tggctcctcct	ggctcctgac	gctacgggtc		60
ttcctcgtgg	cgtagactgc	cagcttcgga	gaccctcag	cccctccccg	ctttctcca		120
ccccaggagg	ccatcagtag	cgagctactg	cctcggccac	aacctcccag	caggatngcc		180
cgcggttttc	aatctgcgaa	aggaggaccg	cnagccaga	aatgccnagc	cnagcgatca		240
ctgccacgcc	naqccnagcg	ctcgtgc					267

```
<210> 622
<211> 847
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G
```

<400>	622						
cttangntgt	cgactgacgt	catgcatgan	ttaaagcaga	ggtttggtga	aatttatgaa		60
aaatacaaaa	ttccggcttg	tcttgaggaa	gagccactac	ttgataactc	tacaagagga		120
acagatgtga	aggatatctc	ctttaatttg	acaaataaca	tacctggttg	tgaggaagaa		180
gatgcatctg	aaatatctgt	ctcagtggtg	ttcgagacat	ttcctgaaca	aaaagaaccc		240
agtctcaaaa	atatcatcca	tccatactat	catccgtact	ctgggtccca	ggaacatggt		300
tgccagtcac	cttctaagct	tcatttacat	gaaaaataaat	tagactgcga	caatgataac		360
aaactaggca	ttggacatat	ttttagtaca	gataacaact	ttcataatga	tgcaagcact		420
aagaaagcaa	ggaaccgaga	agtggttacg	gttgaaatga	aagaagacca	agagtttgat		480
ttgcaaataa	caaaaaatat	gaacccaaaat	agtgacagtg	gcagtacaaa	taactataaaa		540
agcctgaaac	ctaaattaga	aaatctgagt	tctttaccac	cagattctga	cagaacatca		600
ggaagtatat	ctacatgaag	aattacagca	agacatgccg	aaagtttaag	aatgangtca		660
acacattaga	aanaagantt	ctgggctttg	aagaaagaaa	atgtttccact	tcataaagaa		720
ggttgaaaag	agaatgggag	agccengaan	tttttgcccn	gaaatttttc	ggaaccctac		780
tggaatgggtc	nactggttgg	ccatgaatga	ataatggact	aatcnnccaa	ttcctnggga		840
agqqaat							847

<210>	623
<211>	681
<212>	DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(681)

<223> n = A,T,C or G

<400> 623

aaaactgtac	tcgcgcgctg	catgtcgcaca	ctagtggatc	caaagaatcg	gcacgagcga	60
aaangctcan	gcagcccggc	tggccgcgcg	cgctcctccc	cccaggaaaag	ccaangtgga	120
ngctgatgtg	gctgcangag	ctcgtttcac	agcccctcan	gtgganctgg	ttgggccgcg	180
gctgccangg	gcggaagtgg	gtgtccccaan	gtctcagccc	caaggetgcc	cctcaciaag	240
cactgggtgt	ttgcctccac	tgccaccttg	ggctccgaac	ccgctcccct	gctgtggang	300
cccaccgtgg	gaatccaggt	cccaggtgg	actgcctgcc	ttgcctcac	tgcccactct	360
gcccacactt	cctgcctag	anaccgggaa	ggggtgtgt	cggtantgg	gcccacttgg	420
atgtggcagc	accgactgtg	ggggtggacc	tggccttgcc	gggtgcaaaa	gtggggggcc	480
ngggaaaaagc	acctgaagtg	gccctgaaaa	atccccctt	aattttcccc	caatttgggg	540
ctcnaacaaa	aggaaattgc	tgaagccaan	ggtaccaagg	tcacccctaa	ggccaggggtg	600
aaaaggtccc	aaaattccaa	tncccacnt	ttgggcttnc	ctcttggaac	cccggccccc	660
tctcntgaan	ttttaaaaaa	n				681

<210> 624

<211> 661

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(661)

<223> n = A,T,C or G

<400> 624

attggtctta	ctgtaccacc	gggtggaaat	cgatggccgc	ggcgtctaaa	tatccgattt	60
tttttttttt	tcctcttctg	actgtccatg	gacaaatgaa	actaacttaa	tctaactaaa	120
aaacacaact	atattttgaa	gattttctat	ctgcactcaa	ggacactttc	cacncggttg	180
ttgttacctt	ttggtcttgt	ctctgaacat	gaaattnatc	tcaagggatt	ngatttcttg	240
acctcctatt	cctgctatgg	gtttgatatt	tcttgggctc	cagggccact	gttgcatagg	300
gntgacagnt	acctcctagc	ccatancttc	ctatcttggg	aaacaaacct	aacaactacg	360
tgtaccttcc	atagatctct	gattgagtct	cagtatncgc	ttgctcatgg	gcgattcact	420
tgaatccgtn	attggtgcc	acaatcctga	ctcatggggn	aatggatcct	atcacgttcc	480
cctgattngc	aaccctgta	tacatanatc	taatcgcata	gaatctagcn	tnggntatgc	540
gcggctacgc	tatcagggnt	tgntaactat	ngcatggcta	cgaancctga	tcatgatcna	600
gggtcatgga	ctcttatcag	gggggttggg	ccngngcttct	ttttcnnacc	ttggtaaaac	660
c						661

<210> 625

<211> 181

<212> DNA

<213> Homo sapien

<400> 625

gcaacaatca	gatcatgtta	aagtaaactct	ccattgccct	ggatcacttc	aggatttaat	60
tgtccaagga	gagcaggggt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120
aatacaaaaat	tcaaccgggtc	gaaaatacac	cactccattc	agtgctctac	ccccataaagc	180

c 181

<210> 626
 <211> 181
 <212> DNA
 <213> Homo sapien

<400> 626
 gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaaat 60
 tgtccaagga gagcagggtt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
 aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgctctac ccccataagc 180
 c 181

<210> 627
 <211> 813
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(813)
 <223> n = A,T,C or G

<400> 627
 accaagctgg agctcgcgcg cctgcaggtc gacactagtg gatccaaagt gaacgtgaag 60
 gtgagcagag gagaacttgc gatggcaaag ttaaaaacaa gaggagatga tgggtcttggg 120
 gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttgagtaat 180
 gtgccacttc cctacatagc cttctatgca gaaatgctat atttccactt cacaaccag 240
 aacgtgcatt ttattttaca tttagaggag gaacaaacaa ccagaaggca aaaactgggtg 300
 cattattttt tgcaattctc ttggaaagag ttcgttttta acttctgctc agacagcaca 360
 caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggg aactcattta 420
 ttgctaataga agttttcaca ggaagcagca gtcaccagta gtcactctta tttttcagtt 480
 ggcaaagtgt tgtttacctt ttattggcct gcatcggtgt ctcttatcac aggatattta 540
 attagaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
 gaatggctaa atatttttat tacagtgatg taatatcact gnaattttatg gttaaaaatt 660
 atgtaatact caaaaaggaat tctcagactg gcgaaacagc tggnaacag ctntcacagg 720
 gctttanact cctnttgagc tttcccctg ntggacttta gtcttccttt tacncccgna 780
 gtnccattn nttaccaatt gtnccgggaa ana 813

<210> 628
 <211> 646
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(646)
 <223> n = A,T,C or G

<400> 628
 tttggngngn ggtgtctcnt ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
 atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
 agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
 aagaaaccca cacgtcggtc tgaacctgga gccttatcaa aaaggtctag ataaacgata 240

```

gcgatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcgtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agcccggctc tttctccgaa tggtcggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggta gactcgaagt gttcgggcga atcgacttat aatagtcgcg cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600
ggagaggctt aataactaag acacttggag cctaggccaa cgcgaa 646

```

<210> 629

<211> 617

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(617)

<223> n = A,T,C or G

<400> 629

```

gccccnccc ccctcctngg gcttatnggg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttcccctt tcggtctccc ctttctgtcg gtaccctcc ctagtcgtct cctacacctt 180
cgtaccgtcg atatatagtc gccgcggact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagttccgac gaattcctgg actctcgtac tagcaaacctt tcttatgagg 360
cttccttgta tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420
cttgccttat ctctagaagt agaggactct cgggttcgtt ctccaaatct agcgtctagag 480
ctatcgctac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcgggt gctccttctt ctcaccccc cttcccgcct tctcgggaan 600
gaatctactt tancttc 617

```

<210> 630

<211> 644

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(644)

<223> n = A,T,C or G

<400> 630

```

cnntcggcnt gggttttntt ctgagnnncc ccccccccc cccccccaaa cttacacca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcttc tacctcgga gtagagaatt cggtatttaa attcagggtt agaggctcgc 180
tcgttagatt tatagtttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaagggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atatatagtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgtan gaatcgggtat caatatgntg 540
ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

```

<210> 631
 <211> 526
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

<400> 631
 ccntcggcctt ggggttttttt ctgagccccc cccccccccc cccccccccc cccccccggc 60
 cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct 120
 atcccnegta tcgngtaggt cggtagccgt accgngatc ncnacgattn ttcgggtcgt 180
 cncctttaan acggncccggt agccnccgga anaaatacta cgagngactc taatntagca 240
 anaccgcgcg tcnattanta gcatecttag tcttccaatg ncgnggattn ngaatccttn 300
 naagttatcg ggtagaacgg gtcccgggtcc cccgcctct ttncaattaa cgccgggtac 360
 aaantcgggt tctaaattcc ncacgaattt ngncggcaac attncgggn ccttattanc 420
 cntttccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcnccccga 480
 ngantccggg tcctttgagt ngetctagga cggttacgac ggagga 526

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

<400> 632
 tttgggnggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg 60
 gtgttttgag tttcttcttc gtcgtctctg ggagggtcgg tttcgattga gattcgggtt 120
 cgtctttatc ttacgaggca ccctgatatt gttgcgcttt ggtttggttg tggagagttt 180
 tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt 240
 gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg 300
 gattgggaga tatagaatca taagtgttag gtataggtcg attgagcgag ttcgtggaat 360
 tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggt 420
 cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggt 480
 aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttgtgga tattgtggnc 540
 tanactatct agtgtaagcc ggagggtggt tgcctggtg gagtatccga nnttcattcg 600
 ganggtatgc gtgcggagcg gtcctttag acattccgga aaaatgg 647

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000

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<210> 634
<211> 647
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)..(647)
<223> n = A,T,C or G
```

```
<210> 635
<211> 645
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G
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<400> 635						
ccttcgggctt	gggttttttt	ctgagccccc	ccccccccc	cccgaaactc	gccttacccct	60
agatacccaa	agaatagttc	cactcaactt	cgtctaagta	aaactctaga	acttccaaac	120
ataaaagact	tcgcgcggtt	agctacacag	cctacgggaa	tctcacgaat	cccgattcaa	180
gtcccactct	cgaccacacc	ccggtatcgt	cgttttccca	taccaatgtc	gaaaaataaa	240
ataaaatcca	gtcaagcccc	acggtaagcg	ggggtagggc	taggcgaaga	ggcaggaacc	300
gttcgaggcc	gggggctttc	aaaatacaaa	acaactactt	aaagtttacc	cgttctaaag	360
tcgggggcga	cggttaaaqc	acqccctcaa	agtactactc	gttttcgagaa	ccgttaagtca	420

tctcccgc	at	agagactctc	gcgtatatca	actcgc	atcgc	cttctagcat	tccgacggtc	480
gccccgcg	gct	acatatcttg	cggattagct	ccgagggact	ataggggttaa	ttagtctagt		540
aaattctctt		agaggatagt	cggggtcgta	gttaggcagt	acgaggggac	atggnctgcg		600
tcgtgctcta		ccttgacagc	atactcttat	aaacatcttt	ttcct			645

<210> 636

<211> 643

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(643)

<223> n = A,T,C or G

<400> 636

ccttcggc	tt	gggttttttt	ctgaccccc	cccccccc	cctagcggaa	aacaatcccc	60
accgagattt		tattaatcgt	aaaactcgcc	ttcgggtacca	agtcttcctc	cttcccgtaa	120
cctggctccc		tcctagnngc	tttacgaacg	tcctctctct	tcttacggct	cggaagtgg	180
tacgggttaa		tccggaggng	gggctaacga	atccaaggct	aactcctctt	anagtttggt	240
gtccnncngt		ttagtaagga	tcggtggagg	gcgagtattt	gncccccggc	ctttattnta	300
tagttcccta		gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan	360
agggccgcag		tcnccgctag	acaggetaca	gctagnngag	gtaccgcctc	cgactantcc	420
gttgnttc		acaaggngt	ttcgggttaac	tccacaaact	cctccgccga	ctctanggtg	480
gggacggcag		ttccnncgtt	tagtgtgcgt	tatagagaag	ggcatttgag	ttggacgtta	540
cnttttaaca		taggttattc	cgtttaggtt	cctgcgggcc	cggtggggta	gtncnccggc	600
gcgttnntat		cggcgatttt	cgcaggttcc	cgtttccggn	tnt		643

<210> 637

<211> 631

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(631)

<223> n = A,T,C or G

<400> 637

gggttntctc		atttgggtgg	acttttttggg	tcgtaggaac	cggtatgnag	gagtaggagt	60
cgctgggaag		actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta		cgtcgggttg	gtgttttcggg	gttttgagga	gtaagcgtag	ttgtggagtt	180
tcgcatatag		gtccccctac	ttcggcgatc	tcgtcttctg	tcggttaggt	tattattggt	240
catccttcgc		attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300
tagtcggaga		attcgtgtac	gaagtccttt	aagttcttta	agttcgcgag	taagacgtgt	360
acggttat		ttgtcgtcgac	gtaggtgtcg	tttacgggag	tttcgtttta	gggttttacg	420
tagaacgtta		ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt		cgaaggcgca	tttgttatcg	aaggggagtc	cttgagaaat	cgagatattc	540
caagaatatt		acggagatta	cagatcggaa	ggctcccgag	atcggacgta	ttaccgggtct	600
cggccgaaac		gagtaggtat	cntccggata	a			631

<210> 638

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtcc	ggtcgagtag	agggaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccgggtctc	cttccgggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagtt	aaggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tggggcgcag	ggccactttc	ctcttttcgg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagtttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgctc	360
agtccccggt	tatccttcgg	gattctatgt	tttcgcccgt	agacggagac	cgggtagtag	420
ggttccgctg	taccgccact	cgctgccttg	atccggccccg	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggtcg	540
gggggtcgaag	ggantaagaa	atcgcantcg	cgcggggtcg	gtagganccg	aaatttttct	600
cnnctg						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

tcntcggt	tgggtttttt	tctgagcccc	ccccccccc	cccccgggaa	cgagaaaaca	60
atcccaccct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcctc	ggaatcgctc	120
tccggcggtg	gtagttccgg	cgattccgag	tatgccgaag	tgtatcgctc	cgtctagagg	180
ttggatatctg	tttatcgcg	tgacgctatt	gactcggatg	ctttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	ccggctatta	tgtagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcgtt	420
tctaacagtt	cttccggggc	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggatc	480
ctcttcggtt	agccctcttt	ataggatttc	tctccgccc	cgaaagangg	ctggtcgctc	540
ccggcangta	tgtctagctc	gaacgccttg	ttactccttt	gttttcgaaa	na	592

<210> 640

<211> 637

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(637)

<223> n = A,T,C or G

<400> 640

ctttgtggcg	gtggntgtct	catttgggtg	gacttttttg	gtcgtaggct	tatccgggtg	60
------------	------------	------------	------------	------------	------------	----


```

gggctcccga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcg 120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggtctcgg 180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgccgcttta 240
cgttcgggtcg gcatctacgc ctagttcaca ggtagtttat gcgcccggagc gcgtgacgga 300
gaggttatac gggacgcgga agaaccgcct ccaaagtact agtacaggct cgttcggggc 360
tagatctcct cgctcgggtcg gcggttctta cttctagggc cgctctacgg ttttaaggcgg 420
tcgtagatc tttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg 480
gtaaacgatt acctccggtt ctagcccttt ttactcgcgt aacgggagaa cgggggtccgg 540
ctctcagata cgcctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacggttaa cgcggtaaaa gcgacctcgg aaacctc 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

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<400> 641
ctntgtggcg gtggttgtct cagtttggtt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttggttc agttacgcga ccctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aaggttatta tatattattc gcttaaaaag gttcctgaca 240
tgggacaact tcaccacca ttctagaagc cccctcctct gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatttttta accaggaggg tatcggtttt taatagggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataata cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgtec accataaccc catcgggctc tcaccccat tcttcataag ttctagagca 540
tcctgagctc tttcctatta cccttgatgg tactcatggt ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccaccgg tctaatacct tctatcaen 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcgggt tgggtttttt ttcgtcgcgg gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggctc 120
tactcggccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcacgag cataagcact tagaaggtct tctcgaggag aggtaggcta cggactacgt 300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaagaga atccctccta 360
tacgttgga taactagacg acgcgtcgtc gggaaatctc gccaaccccta ttgcgacctc 420
caaaaggaag attgtcggtt catagaacgc taatactcgg ggtcttcccg aatcatagcc 480
gcatatcgggt aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540

```

ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg 645

<210> 643

<211> 586

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggatatgcag 60
ggtcgcgccg gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc 120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa 180
ctagtgtcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg 240
gacttaagct acggtagagc agtcgggtcct gaagcatagc tcccgtagga cgtaggaaac 300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca 360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag 420
ctcccctatt tttccaacac atataccggc aaaggaaaat cttntgtcct cgggtctaaag 480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaaanat ngacgcgact 540
actccctttc aaagggagtt tccccctagg nagagttcaa cngaag 586

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtatng 60
agggtatatt gacttgtttc tcaaatecca tggatatggtg ggtggcgtgc ggggtggcgg 120
tcggttcggc gggggtgggg gtcgtcctcc aaaggagttg cttagagggt tttagtgggt 180
ttagggcggg aagggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg 240
agaaggtagt tagcgccggt tcggaagatt ctcagaattc gagaagaggt agtggggcgc 300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggccgg gagtagcttt 360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct 420
cgaggaaacgg agcgaccgac gtcgtagccg gacccgtcta tccgtacgtt tagagatacg 480
ctcacctcca cgggcgtata tgcccgtata cgtataaacg cgtaatatac tcgcgcgtaa 540
aacacgtata cactatatac acgcacgtga cggaccgtat agcgttatac gcgcgcgcat 600
attaatttac acttatatac gcgttaacac gatatacac acnccg 646

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

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<400> 647
accttacctg gtaccggggc cccctctgag tttttttttt tccaaataca actcagattg      60
tatacgaaaa gctgataata cattgacttt tgctgtttaa atcccttgag cctttgataa    120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc    180
```

```

catattgatt agtttgattt tatggatgat ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatataa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtggtattc ataataattt aatagcttct 480
gagggtgttt gtccatgtga tgaaggctta tccacctgt atcaattcat gggctctgct 540
ttgtttaatg tagtcagggt gttaatacna gacttaagag tcatcctact gtgataagtg 600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg 660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg 720
ttgtttatat ttngngaagn catnaagana ccg 753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatatcccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc 60
ttgncaaat cccggccagc ggagcggcga ggggtgggac tcacgggaag ttaaacagcc 120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat 180
ggagggcacc gcggctacgg ccgcggctga ggctcccca ggtggagcgg tggcctggag 240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga 300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat 360
tgaatgctgt ctgatgctac aat 383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G

```

```

<400> 649
cgattgtnta cnagtcttag agtaagctta agntcgn tac cgagctcgga tccactagtc 60
cagtgtggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg 120
anatttacc ctttccattt agcacagtga gganaggcta nacagctagg atgcaataaa 180
aaaaatttta atgagaaatg tgtgtggtag attaatctta ttaatctcaa gttatagatt 240
aaaaatttta agtacnccat aaatgccatt tgcctttgct aangntacat ttttatgaan 300
aangacntg catacnaaat ganatactgg actttnggna cttgangga 349

```

```

<210> 650
<211> 306
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

<400> 650
 cattgtgttg ggagcaccct tccatcagct cccatgagaa attctctgtt gggtttaagc 60
 aatccccaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcatttagca 120
 gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggttaaagt 180
 ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct 240
 ccctgcagat ccganantca gggncctggac tttctgggan aggaagcnaa aagttatntc 300
 tgaacc 306

<210> 651
 <211> 769
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(769)
 <223> n = A,T,C or G

<400> 651
 cattgtgttg ggcagggtca tttctaaggc atgggctgga agcttttatt taaaacttta 60
 catgtcttag aagcactctg gttgttgcta ggcagacaat tttacatctc ttgctatacc 120
 agttgcatga agttcatcat gcatattggc tgtggaaaac cttaacagca tcatgtcata 180
 aggtttcagt aagggtttaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa 240
 tgttagcttc aaaacaatga caacctaaact aatgttgaaa gaagcttggtg tttgtaaatt 300
 atgtcttatt gaaagatgtc atcaaactct gttatttcta atcccttaaa gtctctcaat 360
 gtattttcttt ttgccatata caatgacagg accttagttt aagccagtgg ttctctcaac 420
 ttctaatacca gagataacct ggtgtcccca agaccttttc agagcaccct tgatgtcaaa 480
 accattttca taataatatt aaaatattat ttgctcattg tactcttatt ctctcccaaa 540
 tattcagcga gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat 600
 taatagaata tgnngntttg gattcttgng tttaaaattt tctcactttg gggttctaatt 660
 atggnnacga ttaatagata tggncctccat gaccagangg ctttaaagca ntcaataatt 720
 tttaagagac taagnactat ctttaaaga tngngaactc catcttaatt 769

<210> 652
 <211> 267
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(267)
 <223> n = A,T,C or G

<400> 652
 nnangccctt taaccattgn ggcctccacg cnntggcggc cgctctacaa ctagnggatc 60
 cgcnaactcta gnanaangat tggtcttntt gggntgggcc ggnccgggctg gggcgttaag 120
 cggggctggg cgcgcgccgn ggttgnacna ggcgcgcccg ccncacacn cccggagcac 180
 cctcnttgcg gccntncccc gtcacccccg cgcgcgccgn tccgcttttt ccncacccan 240
 agcnctnttt atctntgtct cctccgg 267

<210> 653
 <211> 501
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 653
 cccttnnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc 60
 ttncnatgag atgngcgang gaggacnnat ttgctatnct ggatggggct gantcntnta 120
 gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg 180
 cncatcctaa aanncanctg ctgtnttcag agtacgcgac acatcatcnc tnatgcattg 240
 ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat 300
 ggacntatca ccttanaggt acanntnccg caccacacac cngcttgenn cctgacgctg 360
 gactggatcn cttagggcac caatnccccg tttncacat ncctgggacn ctananatac 420
 tcganggggg gcccggtanc caattcgccc taatactgag ccttgntacg nacgctnact 480
 ngngtecta ttanaacgtt g 501

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

<400> 654
 gcgnccttan cncatgctgg gctccacgcg gtggcgggcg ctctacacta gtggatccca 60
 aactgagtc caccacagna aaactcanca ccaggcagac cccacaactg cagaatccag 120
 gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct 180
 caaggnttta gggttgctg gtanactcaa tctctatctt tcaccactgc cagcctgact 240
 tcagagatcc tgnctcttg acagtctca gtggcaggca actctcagga gcctcaggnt 300
 tttggcacat cccagnacca gccagctgcc acaggccctg acctntanc aactgccc 360
 atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag 420
 gtgcncctca aancgtgtgc tgctgcagna ngccccacgt ctctggcatg cccaatgcc 480
 atgngtgga acanttgact tctgggcatg ntggaattcc ctaccactga ncctgaccat 540
 agngggganc ccattttttt cgaggggggg gcccgggccc caattccncc ntatagnag 600
 ncgtanttac gcgcnnctta ctnggccngt ngtttaacaa cgtcnntgan ctggggaaaa 660
 cccctggngn cnacccaaatt taaacngcnt tgcannacat cccctttctg 710

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

```
<210> 656
<211> 308
<212> DNA
<213> Homo sapien
```

<400>	656						
gctgntgaaa	gaccacaccg	aaaaactctn	ctttccgact	tccacatgat	gatngcgtg		60
tggtggtgag	agacttatca	tgacgacatc	gcttcnacc	atcgancnccn	ctgcccgaagc		120
ccattcatgg	aggcctgggn	antttctgtga	ntgacntnga	cncatanacnc	tnccactgtg		180
tgctatccag	acttgnttng	aatatnttat	tggcnaaana	canttnccga	atgctgtgnt		240
tgnnccatga	angatctgat	cactatgaga	gggtgaggac	nncctgctng	ctggcantnt		300
ntaacctn							308

```
<210> 657
<211> 696
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(696)
<223> n = A,T,C or G
```

<400>	657						
accnttttcca	caatnctgnn	ctccccgcgg	tggcgccg	gtcgcaccagc	aacctcagct		60
gtgggtcttg	ttacagtaaat	gagttagtgt	aaggaaagtg	tgacatttcg	agcaatttga		120
tttgtttaa	aactagagca	gtttcagggt	tttccttgta	aatctgtctt	atgtgtcttc		180
aatgttcttt	cttgaggagt	agagaaaagga	attgttagga	atgatgcata	aaccatggct		240
tattttatat	cgtgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga		300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaaagagc	tgggaatttt	taggggtctag		360
agggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtgt	agcaccagggt		420
gtngnaaagc	gaatcttggt	ntcaaaaanaa	caatggnaag	gggtaagttg	gtatnctgaa		480
ctggcccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	ngggtggtct		540
tgtgcttgtna	aggaaagcct	gtgcaatgga	atgactttaa	aaccccccat	taaaaaaaaa		600
angntataaa	tcttgggtct	taanaangaa	gcctgggttc	tnttanccca	ttttncccc		660
qgqaagqnaa	atnttcttag	qnaangгааг	qgaagg				696

```
<210> 658
<211> 698
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658
 ctggactccc cgcggtggcg gccgctctag aactagtgga tccgtgttgg ctcaattctc 60
 aaggctgttg ctgtgcgggc tggtccccc acgtgctgct cagctcaggc aagcaccgag 120
 cttgtgttgt ttcattgctca gcgtggaggc cctcctcca ggctcgctgct ctgtgggggtt 180
 cccatacact caggctccta ggaggagtcc atttagaaag ccagggtttt tctcagagtc 240
 ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc 300
 aagagaaaaa acagggaaaa taagagaggg accttgacaca cacacgctct ggaccacaga 360
 gccctgtgcc cagctcctct gtcaatacag gtggaatctc gtgcaggatc gcaggggtct 420
 gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg 480
 gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggtgtcgggt 540
 ctttgacccc acngcacagt tgtgagacac cccatcctn agatcaaagc cccacataca 600
 gcttggggaa aaacaaaacn aaacaaaaca aaaacagtaa acctccatgc canttgttgg 660
 gnaagttttn aatttntctt cccnaccan cttgcttc 698

<210> 659
 <211> 750
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(750)
 <223> n = A,T,C or G

<400> 659
 ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc 60
 tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt 120
 gaggcctaag aatgntatct tcttttagtg atggctcttg tttgcttctg taaggnaactt 180
 gtgggcactc gtaagcttgg atctctttaa tctaatacca gntttgagat tttcttggcc 240
 ccatagatga attaaaactg gcgtacttct tgtttacaag anggataagt ctccatagggt 300
 aagtcttttg ggggtcccaag tcaaaaagat gagggattta ccagttctct aaccttggta 360
 gccccagact ccaaactttg ctttctagtc ccaagaggct atcaaaaagc aaaggccatc 420
 ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc 480
 ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc 540
 acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt 600
 cagcttggcc cctacaatn tggtttccat ctgccctaen gaaattttta agggcacttt 660
 tttnttggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta 720
 aaggggttat tttccttccc cttttggaag 750

<210> 660
 <211> 849
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(849)
 <223> n = A,T,C or G


```

<400> 660
tcggatccac tagtccagtg tgggtggaatt cgcggcccg cgcgacgggc agtagtggtta      60
tgcntntcta aatgtttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaaat tttgattata tttgggttttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcatgg ttactaaaga tcactcatgt ggagtagttt cagatttttt      300
tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc      360
atgtgatttg ttttagtgat caaaagtcgg tagctccttt gatcctaagt gccactgata      420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa      480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta      540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca      600
gtaacagttt gcaaattggc aacacaatca tttagtgatc ctgggttgata ttttcaatac      660
tttctgggga tttcttggct ggnttcaaaa gatgatgctg atagttttat tgccctgaa      720
ggtattctga agnttancat aatttattgg tcagtaaaat atttgaataa aagngganga      780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc      840
cggccttg

```

```

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

```

```

<400> 661
aacttaagct tgggtaccgag ctcgatcccc tagtccagtg tgggtggaatt cgcggcccg      60
tcgacctcca ttctgttctt gtcctttttt ttcatttttt ctcatgttct attcacttta      120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg      180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg      240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca      300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga      360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg      420
agctacttca acactgtgtg agacttttaa tggggttgca ttgggtatgc actattagca      480
agataaccta ttttacagca gtgttntta acctttccca tttatttgaa aggcagctaa      540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata      600
cnaaagggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa      653

```

```

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 662
aaacttaagc ttgttaccgc agctcggatc cctagtccag tgtggtggaa ttcgcggccg      60
cgctgacca gggacaggca gccagnctg gggtcaccag ggccccctct tgggccctec      120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg      180

```

```

gttgagctct ctgtgcctgt tccttcatac catcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtecgccac ctgttcatga ggccacccag ggtttggtgt gtcatttgtc tcctttcatc 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagacccca cacagtcctt 480
ctcccagang ccagacacan nctncgccac agnaaggact tcagtccccg aancaaagt 540
ncctgggcgt anaaactgna gggnccccaa tccctggtgg ggtactgctt tgcactggng 600
gaattcacc ctcattgnna acctttccct ntnnncacc ctaaac 646

```

```

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

```

```

<400> 663
aacttaagct tggtagccga gctcggatcc ctagtccagt gtggtggaat tcgcgggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagtgtgata catattatta tatactacat 120
nggtttttcta gaattaaaaa attaatgtgt agtgccagcc ctatagtgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttacgcta gccacatggt agacgttttt tcctttgttt 360
ttgcaaaaatt gcaatataag ttgcatatcg tttagagttaa aagatgtaaa gaaccatag 420
aagccagtga tgaaggacat ttatatatttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaaanc atcngtaaaa aaaattttgn tncatatttg 540
atttgggcac cattattacc tccccaggtt cctttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aatttttggg caaaaaaaaa caaggttttt atttaaattt 650

```

```

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 664
taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccatttctac 120
agaaagctgc aatttcaggt tttcaaccta ataggtgata ttaagaaaa aaaaaaagca 180
atcgcaaata gccccactgc ttttacaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggt gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattttt taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggtcctga atagccaaa gcaacactga acaaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagatttct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660

```

cctatatatta cngccnc

678

<210> 665

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(694)

<223> n = A,T,C or G

<400> 665

cttttcaa	at	cattttt	nct	cttctag	gta	tancctg	tca	ggtggc	cctaa	tgtaat	tttt	60
gacatct	ccta	ngaatt	ttta	tagaacc	aga	aatggg	tgcc	agagata	tgc	ctgcact	aat	120
cttaagt	ggg	gatttat	gta	tttctca	agc	aagtga	ttaa	agcaaaa	acta	ggcacg	attg	180
aaatcaa	gat	cttttag	gca	anaaagt	cat	gatgag	tttt	agaatt	at	taggact	ctg	240
tggcttt	ctc	ttcatag	aaa	tagaaaa	aaa	aattgt	ataa	aaccaca	aaa	ggtcct	gaat	300
agccaa	agca	acactga	nca	aaaaga	acan	agcagg	gaag	caacaca	acta	ccnga	attca	360
aattata	acta	ccagggt	gta	gtaacca	aaa	cagcatt	cta	ttggcata	aaa	atagaca	acca	420
agacca	atgg	ancaga	ataa	agaacccc	ac	aaataa	atcc	atata	atntac	cgccan	ctga	480
ttatcaa	ataa	cnaacac	caa	gaacata	tnt	taaggga	cnt	nctatt	caat	aantag	tgt	540
ggnaaaa	aact	gggaaat	cca	tatgcaga	aaa	naatga	aaact	agacccc	ctat	ccctc	accat	600
acgcaaa	annt	caacttc	gga	atggg	attac	aaaact	ttaag	acattcca	ac	ccaaga	aaact	660
atnaaa	ancta	ctatta	agaa	aacagat	cnc	nccc						694

<210> 666

<211> 705

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(705)

<223> n = A,T,C or G

<400> 666

tttaaaa	aatt	tagata	caact	angaaa	aatta	ttttag	tatc	agaaga	aatat	cagggg	gtgt	60
agtact	catc	agagcta	aat	gagagc	gctt	taaaa	atggt	agttt	gtctt	ccgcc	atttc	120
tacagaa	agc	tgcaatt	tca	ggtttt	caac	ctaata	ggtg	atatt	taaga	aaaaaaaa		180
gcaatcg	caa	atagcccc	ac	tgctttt	taca	aatcat	tttt	tctctt	ctag	gtatag	cctg	240
tcagg	tgcc	taatgta	att	tttgac	atct	ctagga	attt	taataga	aacc	agaaat	gggt	300
gccagag	ata	tgctgc	act	aatctt	aagt	ggggat	ttat	gtattt	ctca	agcaag	tgat	360
taaagca	aaa	ctaggc	acga	ttgaa	atcaa	gatctt	tttag	gcaaga	aaagt	catgat	gagt	420
tttana	aatta	ttttagg	act	ctgtgg	cttt	ctcttc	atag	aaataga	aaa	aaaatt	tgta	480
taaaacc	aca	aaaggt	ctctg	aatagc	caa	gcaac	actga	acaaaa	agaa	caaagc	agga	540
agcaaca	cac	taccaga	att	caaatt	tatac	tacca	aggtg	tagta	accaa	aacagc	attc	600
tattggg	cnt	aaaatag	acc	naagac	caat	ggaac	agaa	aaaga	accca	aaataa	atcc	660
atatttt	tac	agccag	ctna	ttatcaa	ataa	aaacnc	caag	aacnt				705

<210> 667

<211> 817

<212> DNA

<213> Homo sapien

$\langle 220 \rangle$

$\langle 220 \rangle$

<221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 672
 ngancagcgg ngtttaaacg ggcctctaga ctcgaggaga cncctggttg atggtggatc 60
 acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc 120
 aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180
 cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt 240
 gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgncngtgtg 300
 ncncctgtgc tgntccaga agaggttc 328

<210> 673
 <211> 223
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(223)
 <223> n = A,T,C or G

<400> 673
 gggggcacaag ctggctagcg tttaaactta agcttggtac cgagctcggg tcccnagac 60
 attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catctcacc tntcgnncg 120
 tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacgggc gcnnacggag 180
 gccnnccttat cctctcgggt nnggatccct ngaagcatnt tct 223

<210> 674
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 674
 gnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcnngntgg gtaccgggcc 60
 cccctcnaa gcggcgcgcc ttttttntt ttttttcatt acatgataan ntctttnttc 120
 taaacagacc acaccactan agttccttn ctttngtaag gaattgagtt aaagtagagn 180
 atacaatgca gggcttcnnc tctatttcac attccaggnt gggttcngnat ggatcggccc 240
 tgctctccg atgggt 256

<210> 675
 <211> 439
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(439)
 <223> n = A,T,C or G

```

<400> 675
nnactagtcc agtgtggtgg aattccattg tgttgggctt gtatggggtt ttttgtctag      60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct      120
tctatgggct cctcanacng aactcaacca ttttccacaa aaccnattcc tcctttccct      180
tcatgactga gtggtgttgg tactatccng gaaactggga cattgtcctt cacatctntc      240
ccttanctgc ctngtcnat tgatgtcttt gagctntgan atgtctttgt taactntctc      300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct      360
tcacgnatct gttngttnc atncttgctg cttctccngn ggaaaatagg ctnttctggc      420
aaccgaacng aanaaatac                                     439

```

```

<210> 676
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 676
nggnggcctn attaagcgcg cgtaatacna ctactnttgg ggcgaaattgg gtaccgggnc      60
cccctcaagt tnatntgccn aacctctctt ttggaataac aaaagggtta acacatatgt      120
cctcataggg acgcgctttc acacnttcct gacngcttca tanacntcat tncatattct      180
cctcagnaca agttnaggcn gaaggtgagg canacnttat aatttccatt tcacaaatnc      240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct      300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact      360
ctggagaggc ttcactctcg acaaaggaag ggacntgagt ggctgganaa tctcatggga      420
taaagacctc agnatattcat gtccttgga atcccatggg ttgaacaaca ggtntttggc      480
cogtggttct ntccctttgn ccactcttta accttgggtt aaatgatggc ntctntnagc      540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg                    587

```

```

<210> 677
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctactatag gggcgaaantg ggtaccgggc      60
ccccctcgaa gcggcgcgcc tttttttttt tttttactgt ccaaactntc tatngatnta      120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcagggt ccagagagta      180
aaacaaatth aaatttnttc accanattgn agcagncana agcatccnat natatccgac      240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt      300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa      360
ntctatttna tntaccctag catncctgtg gctnactttt cgggctgtgt tggcntactt      420
ttaggagaaa attggtataa atnn                                     444

```

```

<210> 678

```

<211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 678

actagtccag	tgtggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aataacnac	tcttgatnaa	acataaaggt	acagtgttct	atgaggaana	gaaaaggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tcnnananaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaaggtt	ctggaaggtt	tttcagattg	cttaaganac	300
gcngcccttc	catattcntc	tccactacct	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttcccntcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttntctngt	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tggttggttg	caaatgcngg	aatttgttta	ctttcntcat	gtcctgtgtt	gnncnaaccg	540
gctcncctgt	tgccctccctt	tngaaaggtt	ttcatcaggc	cccgcccttt	ctcttntaan	600
ngtcctaate	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggt						670

<210> 679
 <211> 449
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(449)
 <223> n = A,T,C or G

<400> 679

actagtccag	tgtggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aagancctan	caacnttcat	gatccccccc	tcntanncct	tttcctcanc	120
tgcntcctag	tcctgtttgt	cctnttccta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tccggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ntcccatcgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgac	300
cctcccntac	ctcccnnc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttaccoccn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

<210> 680
 <211> 670
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(670)
 <223> n = A,T,C or G

<400> 680


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<210> 681
<211> 494
<212> DNA
<213> Homo sapien
```

<400>	681						
tcatggtgtc	cacagttctga	tgtgagcgca	ttaaatttaa	ggatctccgc	ccttctcctt		60
aaaactcagg	acttggaat	gancctagga	agcgccctc	ccctcccan	ccanattcaa		120
gccccggacc	gctgcgntc	cagctgcgc	tagtgaaacc	gccgaattcg	aattcacact		180
cgnggggccc	gcgaagtg	gcgcgcccgc	gggagcgccg	ggcnagccc	gagggaactgc		240
aagccaanaa	nggaggcatg	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcggagg		300
cgccgatcac	acactcttna	gacgccttgc	ccgcgcctgg	ccagcgcgca	gnctgcagga		360
cgcgcggagg	aggaactcgc	tggagtttgc	caagcccan	gnctctggaa	agtntgtagc		420
tccttctgcg	ancgntctt	ctggcccttt	gggacgggtg	tgtcattggg	cgggggtctg		480
tataaqqqqq	ggac						494

```
<210> 682
<211> 263
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(263)  
<223> n = A,T,C or G
```

<400>	682						
tgatcattca	agcngtngnc	gnataacgat	tgctnagccc	aacctttcat	agggtcggtc		60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tcgcctctgg		120
tacagttttg	catatatata	ctcatcgcca	gcgagcgtag	gggancgtta	agtttgggga		180
aatgccnccg	catgncctn	ccggagctta	aacccccaac	aatncccat	ttnaaaaaag		240
ntttnttant	taaaaaaaa	aac					263

<210>	683
<211>	255
<212>	DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(255)

<223> n = A,T,C or G

<400> 683

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagngagc	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccga	gggcggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnt	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

<400> 684

acccttcatt	tcatgtgctt	ctattttctt	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataatt	tcatccaaca	agtactcaag	tttgggtgta	120
gcacttttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atgggttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tattttacta	tcttgaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaaatg	cagtaganca	tgaatgaaag	catttaaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattatth	gcatcaagga	atgggacatg	tacattagt	540
gcatcatttc	taccaatatg	tgacttgaat	tgthttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaaatt	tgggtgttcag	gacnccctg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaatg	gnggggttcc	780
ccccncnaaa	atttggaaccg	gcttttttat	atttaaaaaa	nttncnttt	gngtttgaaa	840
nctnaatacc	aattaagggg	gaattttacc	tnccagtggg	aaaaaaaaac	nctngcctt	900
naaaaaattc	ccnggagnca	at				922

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

<400> 685

tgaggctctg	taaaactggt	cctctgctag	gcatacttca	tattctctat	attaaactca	60
------------	------------	------------	------------	------------	------------	----

```

tctttaattg gcatggaaga ttcattgttc caaatctcag atgaagatcc tatattggat 120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga 180
cacagtaaca gttccttcta gtgacccnag accataanaa atananatct aaagaattct 240
gactccaaag gcattagccc attcctggta ttgccaatta tgatagaaaa aattgccaaag 300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat 360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng 420
attacacatg tttactacaa gagatgttna taagtaaaga aggccctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

```

<210> 686

<211> 336

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(336)

<223> n = A,T,C or G

<400> 686

```

ggngncctna tgagcgcgcg taatacgcgc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
agctctnadc ttgccaanaa actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaacccaatt catgcaanac 300
ctagggccta tttgagagca ttttccagtg cagatt 336

```

<210> 687

<211> 271

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(271)

<223> n = A,T,C or G

<400> 687

```

aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcatgaatt gggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
athtagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagtctct tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

```

<210> 688

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(740)

<223> n = A,T,C or G

136290: T55666

```

<400> 688
tgatgaagcg cgcgtnttac nactcaactat nggggcgaan tatgggtacc gggnccccct    60
cgaagcggcc gccctttttt tntttttttg tgagagtta aataaaatat ttgagtttaa    120
tttaaagttt gagttaattt aaaatatatg gcataatcca agttgggctt tgcanaaaga    180
acactttctc ggaactgtta gttggtgtac caggaaactc gaagggctct gttattaaat    240
atatttgga aatgcatgga ttctctgaan atcnctctgc atgtgagcaa cacttacatc    300
ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg    360
cccccccctt ttgtgtanta cttattgctg ttttttgga ccctggggaa attacttaaa    420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca    480
aaattgcaag tggtgattac tatttaagaa cccaagaatt tgaaagaaat ttgaaaagt    540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctonggnaaa catctccact    600
ttggtnccct tcctttaaaa attggctaaa aattntttnt tatnccacc ccattggaan    660
tncccccccc ctggaacaat tggattcccc tatttcttaa aaaacggccn ccccccccg    720
gngaacncc nacnttttgn

```

```

<210> 689
<211> 635
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

```

```

<400> 689
actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt    60
aaagaagtgt acaaagtga gatgtttcct gagctctcat atatctgana atgtcatttt    120
acatctccgt cttcacctct caaaacttct ttcaattctt tggtctttaa tagtaatcaa    180
cacttgcaact ctggagtcac tgtaattctt gctcctttac agctacncct gttatttcca    240
gctgaatatt tttagtattt tcccagggtt ccaaaaaaca gcaataagta ctacacaaag    300
ggggtgggccc ataaccagaa atgttttgga aatactggct catgtatgca atgccaaatc    360
tggtttgcn tttgtantgtt gctcacatgc agagtgaatc ttcaanaaat ccatgcattt    420
tccaaatata tttaataaca gggaaccttc tganttcctg gntacaccaa ctaacagttc    480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac    540
tcaaacttta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa    600
agggggggccc cttccaangg ggggnccggt tcccc

```

```

<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

```

```

<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agattttgtgt    60
ggctgcagcc gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag    120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta    180
gtccgctgtg agtctcctca gtgacacagg gctggatcac catcgacggc actttctgag    240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa    300
ggctgctgac ttaccatctt gaggccacac atctgctgaa atggagataa ttaacatcac    360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag    420
cccctttaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga    480
aatgcccggc cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgttgt    540
gaggggaagga cattagaaaa tgaattgatg tgttccttaa aggatgggca ggaaaacaga    600

```

tccgtgtgtg	gatattttatt	tgaacgggat	tacagatttg	aatgaagtc	acaaagtga	660
cattaccaat	gagaggaaaa	cagacgagaa	aatcttgatg	gcttcacaag	acatgcaaca	720
aacaaaatgg	aatactgtga	tgacatgagg	cagccaagct	ggggaggaga	taaccacggg	780
gcagagggtc	aggattctgg	ccctgctgcc	taaactgtgc	gttcataacc	aaatcatttc	840
atattttctaa	ccctcaaaac	aaagctgttg	taatatctga	tctctacggg	tccttctggg	900
cccaacattc	tccatatatc	cagccacact	cattttttaat	atttagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcattttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	tttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tggaatttta	1320
attacatatt	ttgtttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gattttttttt	ccagtataaaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatacccat	caaccctccc	cataccacct	1500
aaacaaaatc	taacttgtaa	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
ctaaaagtgt	aattttgatta	taagagttta	gataaatata	tgaaatgcaa	gagccacaga	1740
gggaatgttt	atggggcacg	tttgtaaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatcccaaaa	ggtaaccttt	atccatttca	tggtgagtg	1920
gcttttagaat	tttggaacaa	catactgggc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttaggggt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgtta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaaagtgt	gcctctctct	cttgacctat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcca	atgatgtatc	accaccatat	2220
ctcattatc	tccagtaaat	gtgataataa	tgatcatctgt	taacataaaa	aaagtgtgac	2280
ttcacaaaag	cagctggaaa	tggaacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgttaga	agcacctcgc	atgtgtgggt	tctcttaagc	2400
aaaataacttg	cattaggtct	cagctggggc	tgtgcateag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcacttttta	ggaatcattt	accaggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaattgtctc	tgaacttctg	tcctctcttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgatatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctgggtcaaaa	ggaaccaaga	tacaaaagaa	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcgat	tctgagatcc	ttaaatcaag	gaaaccagtg	2820
tcattgagttg	aattctccta	ttatggatgc	tagcttctgg	ccatctctgg	ctctcctctt	2880
gacacatatt	agcttctagc	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgctgcctat	gggctatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagagggtc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcactga	acagcatggg	ccccaatgta	gccatgcaaa	tgagaaaccc	3240
agtggctcct	tgtggtacat	gcatgcaaga	ctgctgaagc	cagaaggatg	actgattacg	3300
cctcatgggt	ggaggggacc	actcctgggc	cttcgtgatt	gtcaggagca	agacctgaga	3360
tgctccctgc	cttcagtgtc	ctctgcatct	cccctttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aatttttttaa	3480
acttgctgaa	aattaaagttt	tttcaaaaatc	tgctccttgta	aattactttt	tcttacagtg	3540
tcttggcata	ctatatcaac	tttgattctt	tgttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtta	3660
ttattttgtt	ctctatagta	tcaatttatt	tgatttagtt	tcaatttatt	tttattgctg	3720
acttttaaaa	taagtgatc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaatagc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840

atggcacacg tatacctgtg taacaaacct acacattctg cacatgtatc ccagaacgta 3900
aagtaaaatt taaaaaaaag tga 3923

<210> 691
<211> 882
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(882)
<223> n = A,T,C or G

<400> 691
ttactcacta tagggctcga gcggccgctg aattctgctg cagtgcgctg tgattatgtc 60
cctgcactcc agcctggatg acagaacacg atcatttctc taaagacaaa caaaaaacat 120
aaaataaaac tagtataagg atagaagccc agggttgatt taagtctgcg gaaatcataa 180
accatagggtc agactttctca ttgatgaggt acttgtgggt tagaatacaa ttaggtatat 240
ttggtctaga aaccaggatg gaattagaga ataaaagact gagcaatagc atgttatagt 300
attagaaata ctatagaaat aggaaaagcc ctgattatga ctttggagtt ctgatccaac 360
atctgggatt atttagatat tttaaaggaa aacgatgact tttagctctc aggatgtag 420
tttcctcaac cataaaatga agagcctcga aaagatttcg tttaccagat tatttctgaa 480
gtcaattcca gttctaaaat tccatcactg ngcactaagg caaattgaat tgaataaagt 540
attgggnatg cataaaatc tctattttta aaaangaata gtaattatcc attggnaaca 600
gacgcantca tccagncatc tectaccctg ncccatgnen tatgtagana tgtanctcta 660
atcccttaac aaaccgattt tgcaaaggag cttanccttg gggacttgg tcanggcaac 720
tggtctactt tnaagactca tcttcactta ctgggcacca aatnccctacc attgcatcaa 780
actgggggttc ccatncaagg caaacctgn gaaatcttta atcccgaat tggcgcccaa 840
ttttgnngggg tttcnaaaa gaatcntccc ccccgagggg cc 882

<210> 692
<211> 235
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(235)
<223> n = A,T,C or G

<400> 692
ccgcaetngt aangnccgcc agngngctgn aantccgctn agnccggatc cactagtcca 60
ttgatggtaa aagggtagct tactggnatg tccgnctgct ccanganata atacncagga 120
cttctcanag cacttaatat gttaataataa aactnccnga aaaaagatnt tcnatgaanc 180
nttcctctta ggaggtcagg ngagaatagt gttaatgnca ttaagganag aacga 235

<210> 693
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

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agcatcccat	cccatgcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
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<210> 694

<211> 204

<212> DNA

<213> Homo sapien

<400> 694

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<210> 695

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(670)

<223> n = A,T,C or G

<400> 695

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<211> 317

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

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<223> n = A,T,C or G

<400> 696

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<210> 697

<211> 246

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 697

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<210> 698

<211> 3674

<212> DNA

<213> Homo sapien

<400> 698

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<210> 699
<211> 2051
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(3228)

<223> n = A,T,C or G

<400> 701

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<211> 4894
<212> DNA
<213> Homo sapiens
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cgccatcctg gatagtgcct tctgtgtgt ccaggtggcc ccacccctgt ttatgggctc 5460
cattgtccag ctccagcagt ctgtcactgc ctatatgggt tctgcccgag gcctgggtct 5520
ggtcgccatt tactttgcta cacaggtagt atttgacaag agcacttgg ccaaaactc 5580
agcgtagaaa acttccagca cattgggggt gagggcctgc ctactgggt cccagctccc 5640
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```

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<210> 706
<211> 123
<212> PRT
<213> Homo sapiens

<400> 706
Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu Val Phe
          5                               10                   15

Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
          20                               25                   30

Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
          35                               40                   45

Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
          50                               55                   60

Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
          65                               70                   75                   80

Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
          85                               90                   95

Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
          100                              105                   110

Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
          115                              120

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<400> 707
Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
      5      10      15

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
      20      25      30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
      35      40      45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
      50      55      60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
      65      70      75      80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
      85      90      95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
      100      105      110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
      115      120      125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
      130      135      140

Leu Trp Leu Ala Leu Leu
145      150

```

```

<400> 708
Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala
          5              10              15

Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly
          20              25              30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
          35              40              45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp

```

50					55					60					
Ala 65	Leu	Ser	Leu	Gly	Ile 70	Leu	Leu	Ser	Leu	Phe 75	Leu	Ile	Pro	Arg	Ala 80
Gly	Trp	Leu	Ala	Gly 85	Leu	Leu	Cys	Pro	Asp 90	Pro	Arg	Pro	Leu	Glu 95	Leu
Ala	Leu	Leu	Ile 100	Leu	Gly	Val	Gly 105	Leu	Leu	Asp	Phe	Cys 110	Gly	Gln	Val
Cys	Phe	Thr 115	Pro	Leu	Glu	Ala	Leu 120	Leu	Ser	Asp	Leu	Phe 125	Arg	Asp	Pro
Asp	His 130	Cys	Arg	Gln	Ala	Tyr 135	Ser	Val	Tyr	Ala	Phe 140	Met	Ile	Ser	Leu
Gly 145	Gly	Cys	Leu	Gly	Tyr 150	Leu	Leu	Pro	Ala	Ile 155	Asp	Trp	Asp	Thr	Ser 160
Ala	Leu	Ala	Pro	Tyr 165	Leu	Gly	Thr	Gln	Glu 170	Glu	Cys	Leu	Phe	Gly 175	Leu
Leu	Thr	Leu	Ile 180	Phe	Leu	Thr	Cys	Val 185	Ala	Ala	Thr	Leu	Leu	Val	Ala
Glu	Glu	Ala 195	Ala	Leu	Gly	Pro	Thr 200	Glu	Pro	Ala	Glu	Gly 205	Leu	Ser	Ala
Pro 210	Ser	Leu	Ser	Pro	His	Cys 215	Cys	Pro	Cys	Arg 220	Ala	Arg	Leu	Ala	Phe
Arg 225	Asn	Leu	Gly	Ala	Leu 230	Leu	Pro	Arg	Leu	His 235	Gln	Leu	Cys	Cys	Arg 240
Met	Pro	Arg	Thr 245	Leu	Arg	Arg	Leu	Phe	Val 250	Ala	Glu	Leu	Cys	Ser 255	Trp
Met	Ala	Leu	Met 260	Thr	Phe	Thr	Leu	Phe 265	Tyr	Thr	Asp	Phe	Val 270	Gly	Glu
Gly	Leu	Tyr 275	Gln	Gly	Val	Pro	Arg 280	Ala	Glu	Pro	Gly	Thr 285	Glu	Ala	Arg
Arg 290	His	Tyr	Asp	Glu	Gly	Lys 295	Ala	Leu	Ala	Ala	Ser 300	Arg	Gly	Trp	Cys
Gly 305	Ser	Arg	Pro	Pro	Glu 310	Thr	Thr	Leu	Gly	Ala 315	Val	Ser	Gly	Leu	Val 320
Pro	Leu	His	Pro	Gly 325	Pro	Asp	Phe	Ser	Val 330	Arg	Lys	Val	Gly	Met 335	Asp
Pro	Ile	Cys	Ile	His	Gly	Phe	Ser	Trp	Val	Trp	Asn	Ile	Ser	Ala	Cys

340 345 350

Gly Phe Arg Lys Ala Ser Gly Cys Ser Arg Ser Leu Ile Arg Val Val
355 360 365

Ala Pro Val
370

<210> 709
<211> 141
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(141)
<223> n=A,T,C or G

<400> 709
tacggcggtgg tgcggagggc ggtacccac aaataacacn nacaccccat cctatctgtg 60
tccacanata aantgactca ttcctctcct cgcatanccc actntcccct ngcgataccg 120
taacnaancc cttccccctt t 141

<210> 710
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(196)
<223> n=A,T,C or G

<400> 710
cnatccttcn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaacttgg 60
gtcnecatcc acccgtcact ctcccentaa ncnataaccc cttttngcga atagacccca 120
ccttancaat nggtttttcn ttttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180
cccanaaaaa ccccct 196

<210> 711
<211> 177
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(177)
<223> n=A,T,C or G

<400> 711
ntacntcnct ccnaatgaaa ttcgaanctc gggtacccgg gggnattccg attaggngcg 60
tantctcgga tgtgcagtc caagtctttt gctaattcct ataattntcn ctaccctttc 120
ttcnacaata ctgctatcct anttnttctn tcnctctct cccannttac taaccac 177

<210> 712
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(185)
 <223> n=A,T,C or G

<400> 712
 aaacgnacca nngccaacga tangtggttg nggttggttg ggttggttcct cttatntgca 60
 ctggttggtcc gtgtcgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
 acgttttagtc gactntnccg ggcgggcgcgt ctaccntnt atngattctt attaaaantc 180
 ggatc 185

<210> 713
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(172)
 <223> n=A,T,C or G

<400> 713
 nntggctgcc tngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
 cactacacgg cncctnccg agccnnggtc agtgcctnct nggagacctt ctctggggca 120
 ggangagcac tnggtatgtt cacgtatcnc ttcntaaana tacnccctc cg 172

<210> 714
 <211> 112
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(714)
 <223> n=A,T,C or G

<400> 714
 ntgctgtgcc tggacgtnta ctctgcanga tctactactc atgngaattc taantacgga 60
 ctactatnc ggcanccgag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(326)

00005014:060001

gqccagganga tcncttgagc ccncgaggtc gaggctacag tgagccanga gtgcactact 60
gtnnccgccct ccgcattncac gngtggtccg atccccgggt accganctng anttcactgg 120

antttttttt aancgtnttg antggtacna ccctcgantc cctggctg 168

```
<210> 719
<211> 210
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(210)  
<223> n=A,T,C or G
```

<400>	719						
cancgctcgnc	ataacacgta	tttnttgatn	aagattctna	ctgacccatn	aantctacnt	60	
ctcaagctct	tncanngtcc	agtnaangga	atgtgtatnn	gtngggatnc	cacanaaaaa	120	
aganantcgt	gncgcttcac	tantcatcct	tcttacccan	ntctctngat	ncncagntng	180	
ancntgaacg	cacactacng	gatntctcca				210	

```
<210> 720
<211> 131
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(131)  
<223> n=A,T,C or G
```

```
<400> 720
tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
cgnanactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120
gaagcaccctt t                                     131
```

```
<210> 721
<211> 121
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1)...(121)  
<223> n=A,T,C or G
```

```
<400> 721
tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
naggaaaaan ganccaacaa ctaaaaaaaa nncggncgtg ncagcttnga tgactngtcc 120
a                                                    121
```

```
<210> 722
<211> 246
<212> DNA
<213> Homo sapiens
```

<220>

<221> misc_feature
 <222> (1)...(246)
 <223> n=A,T,C or G

<400> 722
 anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60
 gnttcntcga tatgaanaac actaatccca tgtngntn gn gtctccgtga ttcattccctc 120
 gcacnggtcc ccttcnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
 agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
 atcaag 246

<210> 723
 <211> 160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(160)
 <223> n=A,T,C or G

<400> 723
 cctccggaaa atccaantag agtaantncn ctctaaccg gggnaattgg nggggttnat 60
 acgtcctcct cccccagnt aggattnana aaaggnetcc cagancaaaa nctccaaagt 120
 gnatenanta gccgtncctg ananccaacg ccctacgtc 160

<210> 724
 <211> 156
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(156)
 <223> n=A,T,C or G

<400> 724
 tnanccnata tacaccaa at tctgattcta aantcccacc caagggaata aagttgagaa 60
 gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtnggaaa 120
 acctccttag gcccttgntt ggaacaancg aaaatc 156

<210> 725
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(347)
 <223> n=A,T,C or G

<400> 725
 aganggttnt atncatgctg tactcgcgcg cctgcagtcg acactagtg atccaaagaa 60
 ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgngagg cgccgcccgc 120

```
<210> 729
<211> 182
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

<400> 729
 cngactgctn gcgttttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
 gctggctgct tccagtcgat tanatttgtg aaaaagctga accnengccn gttaaggggg 120
 annatgcaaa anatncatcc nnctgccccn taaactgntc tntccnaggg aaaaaangga 180
 ag 182

<210> 730
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n=A,T,C or G

<400> 730
 cactcncact ccggacctag gcncttcacc actgctctct tectectect cctcctcttc 60
 ctcggggctg ggggaccttc cccagtgacc atctcacttt ggctgaancc cactcggggc 120
 agcctgagtt tggggctctt ggcttctca cctcctcgg cccctcctt ggcccgacc 180
 aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctcctc cccctctgcc 240
 acctggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgagaa 300
 gcagaaagta cgctcggcc ctgggggctg ctctcagca cctcggccc ccaccctagc 360
 tctggcccc agtgtgggca acttcagcct cagcccaccc tgcctgtgg ccgcctcgcc 420
 cgctgtgcc tctcggtta gccccacgtc caactcaagc tggggcactg tcacggtggg 480
 catcttaaag acaccctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
 aaaaagggtc acctggggca nctgaacct gtacctgtg tgcctctgc tgaanggaat 600
 gttatctgaa cctgctgcc tgggggtact gccttcccaa aaccgggtca antccacctg 660
 ttggaaggna aatncccc 678

<210> 731
 <211> 135
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(135)
 <223> n=A,T,C or G

<400> 731
 gagatccgac gtcacccct tccggcggcc caagacgctg caactcccga ggcngcccaa 60
 atatctttgg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnnatagt 120
 gatccgagct aagcc 135

<210> 732
 <211> 660
 <212> DNA
 <213> Homo sapiens

CCGCGGCTG

<220>
 <221> misc_feature
 <222> (1)...(660)
 <223> n=A,T,C or G

<400> 732
 gcttgggtacc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggccttct 60
 tcaatcagnt nacgagctgc atggtctgct aacattgtca taattgctgg catagattac 120
 tgaaaataaaa gaaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
 tacaagttat ttactttcaa ccatgttatt acaaatattt taatgaatac tttagagact 240
 ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
 ttgataatta cataaattat tatggtccat tcaacttttc tagtgtttag tttatacacc 360
 aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
 tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
 tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtaggggt 540
 cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
 gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

<210> 733
 <211> 836
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(836)
 <223> n=A,T,C or G

<400> 733
 aattaatgac tttttttccg ccctgccaaag ctagtttgtc taaatataat gtaaagaaat 60
 tagctactca ttttctggtc cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
 ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
 tcctctataa ttgtatacaa aatcgtgagt ttttaaaaac tgggttagag ctattgggtc 240
 ctcagagtct caggcatctt agacccccaa aaagggttaag gactactgac ttaaccaatt 300
 aggttttagt ggcatggct ttgaagaaaa gcagaggaaa gatataattt ataattctgg 360
 gcaacaaaaa agtggatgtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
 ctgcatatga actagtaggt ttttaaccagt gcatatttag gcgaagtagc tcatttttct 480
 gttagaattc ttttttattt gggaatgggc aagcttttac agcttttacc ttgccaatga 540
 atacctggaa tttaaaaaat cttgttaggc atattgcccc taaagttttt tttcctagat 600
 catatattca gtaaataatgt ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
 aacaatttga atgggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
 ataccaanat atgttagact tngngntcct gttaaccatg ctgtanacaa taggaattac 780
 tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

<210> 734
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n=A,T,C or G

```

<400> 734
nagtncatt tncactaaac tnggagtgcc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattaggt 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240
caaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcat atttaggcga agtagctcat tttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttaccttgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatat tgcccataaa gtttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttatct caatcccca attcattgag ggttgaaaca 540
atltgaatgg tttgagtgt gaagctaagt tatttctgta gaggctaagg gcattttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatag gaattactgt 660
atatccacat ttttaatttt aacatcattc tgtc 694

```

```

<210> 735
<211> 126
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(126)
<223> n=A,T,C or G

```

```

<400> 735
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctct 126

```

```

<210> 736
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(165)
<223> n=A,T,C or G

```

```

<400> 736
cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgcgcaa ttgcgcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

```

<210> 737
<211> 125
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(125)
<223> n=A,T,C or G

```

<400> 737
 ggnagcccct ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
 cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
 tctct 125

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgacttca ggccctgtgcg ctcaatcgtg gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggcctattt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggtc 60
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtggggatt tccagataat ataaatattc aacatgaata ttttaaatta aggcattgaga 240
 catttttccct aactgagcat agccatgaac ctctcacgtc tgttcctctg tgtcagtttg 300
 tancactgaa tacagcagcc ctccataaaag tccaggcagt gcacaggctc tgacatgatg 360
 aagtgaacgtg ttgctatggg gatattgacag ctggccaaat agtcaactgg tgattttacc 420
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
 tctcctctgc aagctgnagt taagatggat taatgagtag ttttagatta attaaactctg 540
 aagagaaaaat gggagaaaag tgaggaagggt tgttggcaga agtcattgct ggaatccttc 600
 tgaaggaggat actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcatatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtggtgggc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccnt nttttnttt tttgccccct tgggattggn 960
 tttntttcc 970

<210> 740
 <211> 739
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(739)

<223> n=A,T,C or G

<400> 740

```

gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gatttttaccc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaaggtt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaactt ggcctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc                                     739

```

<210> 741

<211> 1171

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1171)

<223> n=A,T,C or G

<400> 741

```

gccttngngt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcggcc gcgtcgacgg cccttnttgc cactagttct ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatattt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaataca gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt tttagaatt aaattaacct 540
cttgaagaa gaaaaaatgg gggaagaaaa aaagtggag ggaaaagggn ttggttttgg 600
gccnaaaaaa agttccaan tttnggcntt ggggaaaaat tcccntttt ccttgnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnncct tttnggccc aaaggggaa 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaangggtt naaaacctt 780
ngggccccc ggccctctc caanaaggga aaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgccca atancccat aattgggaat tatgggggg 900
ccatgggctt ttggtttggg cnccttaacc cgcnttttaa attcaaanna aaaaaagng 960
gtttggaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaacctt 1020
ggaaaaaat tngnngggg gccnttttgt tgggggggtt tnaaaaaacc ccctngggg 1080
tttttaagc caaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
cccttgggga atggnttant tcanggggcc c                                     1171

```



```
<210> 744
<211> 127
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagtn gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggctcag ccttaggtta agggctgcct ggggaggga 120
 acttcctggg ccttcgggtc tctgtgcact ggggtggctc ctgtggcca gaatgccctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggt cgcgcggcca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggagggtctc acagtccccg tgctgcaatg ctgtcgggtg 360
 actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc acccctcttc tncctctcgg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccggtcc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgccgact tcctggggaa gccatccgc acgtggggtg aggggtcccca 180
 natggaagca gctgtgtatg caggaggggg gcagaggctg ctgccaatgg gcatgtccct 240
 tacctgaaag ggccacctct ccagggtgaca tgcctgggg gagccggggc cgtctgctcc 300
 ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360
 ggaccaagggt ggccttgagc aaaactctct gtgtttgcc agcacccaat cggacacaga 420
 gagtcaacca caccacagtc acatggtgtc cacacngcag ggggtcaagga ggcccgcccc 480
 ctccccctca gacgtccctg ggccctctgg agtcagcaag gacgaggacg gcattgccct 540
 tcgagacagg aaggagtgta cctcctccc ggcgcaccca ggctcngctt ctccggagag 600
 gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aaggtagcca 660
 tgagcacctt gcaaacacag tgcacccacc agcatttnag caccnnggac tgtgaagacc 720
 tcccatttct tcggggggaa acncgcccac ngttcccccc accntcacta gtgnattgtg 780

<210>	749
<211>	642
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

<400> 749

```
ctntgtggcg gtgngtgtct catttgggtg gacttttttg gtcgtaggaa cctggtatgc 60
aggtccgcgg agcgtgggct ctcgctcgtg atggtggggg ttggtgtggt gccggttggt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgttttaggg cgggtgggga gggtgttgtg tagctgttgt atgtcatatt gttggtgttg 240
ctgccctgtg ctgtttgtcc ttggttattg ttggtgttac cccgcctgtg tggagtggt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttggtt ttacgttgct 360
gcttttgtcg tgggcggtg cggcgcgtct gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggatagga aacaagagaa ctaattttng ttaaaaagac tt 642
```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

<400> 750

```
tttggtggcg tggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtc cgacgagcgt caccataaat tcggtagttt gcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatccgga aactagagga acctagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacggtt aggattcccc cggaacccgg 360
agcaaagctc atgatttccc acaccgagag agcgcctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cggtgtccg 639
```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

TTGCGGTTCTG

```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctgggatng 60
agcagctct gagccccccc ccccccccc ccccccnccc ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtnggtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg ctctgctcggg anaaatcggt aagganaagt ctttntggca tcataanaat 240
actggctcgg gtccctaanat nttaagng gtcnccgagg gtnttcatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctncggngc ggngattnan 360
acgaanacgt agaggattnc cgntacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagtgtta taanaatacg cncgcataatt cgctttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaan aaagcgtgct 540
ctaagcgctc taaggnttta agnccgttgg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgtc ctgtcggttcg gtggttccct tttgagttga gtttgtcctt 120
tgaggttggt agctgctggt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtggtggtta cggtgtattg tcgcccgtgg tcgcggggtt ggggtggtcg tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgtt gcgggtttgg gtgagtagtt tcgttcttgg 300
atgtccattt gacccgcatt aatctaagta agggtagta gaaacctct cccgatagac 360
acaaccgtcg tccactaaag acctcgcttc tgatttttaa aaggaccga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcgaggga ggaagcggcg gtggcgga 540
atgaggcggt aagaaagacg acctctatcg gcggcttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggate gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

```

<400> 753
ctttgtggcg gtggtgctca tttgggtgga tttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaacca aagtcaccg 120
actaccgag taaactctcg gagggtagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctctttaa ggggtagtcc cagaacaagg gaagaggacc 300
cgtcggctat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacggtt tccgagaaac gcttccgtag accgggtcct aaatcgctcg 420
gagtattngg agagggatcc ttcggaccct agggacagag agaggagaac ggaggttaca 480

```

```

ggaggagAAC gntcctcnc tagttttctt tangtcgaaa aatttccttac cgatagggtt 540
cctagggtcg gngaattttac ggttcgaaaa acggtagtnC ctaanggntg ntattngggg 600
tagtatcggg tcggtttacaa ntcgtccgctc ttntg 635

```

```

<210> 754
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 754
accgгаттng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaA gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtтgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggggagaa taaggagtтc tccccatgat ggaaaatatc caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgctttctt ccccaccctc ttccccagct ctctctctgt 540
ctctctcttg ntccccctgac ccttttttct tcccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

```

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

```

```

<400> 755
accgгаттng ttntctgagcg cgtgactgct aataaaaaag atggantgcc atctttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaagggaA gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc ccttctttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagtтgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agaggggagaa taaggagtтc tccccatgat ggaaaatatc caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc ttgctttctt ccccaccctc ttccccagct ctctctctgt 540
ctctctcttg ntccccctgac ccttttttct tcccantgca tacttttttn ttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cnttangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

```

<210> 756
 <211> 873
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(873)
 <223> n=A,T,C or G

<400> 756
 ggaagaatac agtaagtttg caaattaaaa tttctctatt tttctgttat ttattcattt 60
 ggaaactgtc agcctgtctc tttcactttg ggcaagtga agcaaagacg tccagtccta 120
 tcagcaatta ggctgaaagt caacgccaaag ctggcgggca agggctggtc tgagtagagg 180
 ttccctaggc aggcaagaga gagactcccc ctcgatactc ccagctcggc aactgcctga 240
 atgccaatga gcactcatta taacccgccc tattttatag gatttaattt tacacttcag 300
 gcttaatcag tctgaaagtt aaactgacag tgtaagttta cggaatcaat gacatttagg 360
 ctttatgact ttgtagctga atatctatgg gctatatctt cattctaaca gtgatacct 420
 gttccagaat ctcatctttt ggtgatggca ctttctagtg gagcagtcac ggtaacagtc 480
 cacacccatt accatgtggg tgctttacag catactgacg gaaggactga ggagccaccg 540
 gagcaggagt tcctctcagg gaggacgctg acacttccac agctgcctan gtatgggcac 600
 ctgatgccaa cgaanaaccc aaagcgctct cccttccaga tgggaagctgc cccacactgg 660
 gctgacagca tctggagctg ctctggctca aatcccggaa tcgcacanct cctancgggg 720
 gcgtttanag atcctcnggg ccagctaccg accacttttg acaaggggnc taggagcgat 780
 aactagnctg gcgcgttaca cncggatgga acgtcttgga cttgagacct cttgggggan 840
 atggcncccc caaataantt gggaaaantn ggg 873

<210> 757
 <211> 782
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(782)
 <223> n=A,T,C or G

<400> 757
 ggccccctcga gggatactct agagcgggccg ccgactagtg agctcgtcga cgatatcccg 60
 ggatttgaga ccaggagaca gctccagatg ctgtcagccc agtgctgggg gcaggcttcc 120
 atctgtgaag tggagaggcg ctttgggctt cttcgttggc atcaggtgcc catacctagg 180
 gcagctgtgg aagtgtcagc gtccctccctg agaggaaactc ctgctccggt ggctcctcag 240
 tccttccgctc agtatgctgt aaagcaccca catggtaatg ggtgnggact ggtaccatga 300
 ctgntccctt aaaaggtggc cttcccnaag aaaggagaat tcttggaacna gggatttcac 360
 ttgnttagaa atgggaaaaa ttaccattta gaattttcgn ttccaaggcn tnaagnccca 420
 aaaggccttt gattcccgaa ccttaacctt gggcagttaa cttttcaaac gggataaacc 480
 ctgangggga aaatnaaatc ctttaaaaaa gggggggttt naaggagggc tctttggctt 540
 tcaggcanti gccaacctgg gaaattcana ggggaagtnt ttttttttgc ctgcctaggg 600
 aacctttact taaacnaacc cttgnccccc catttggggt tgactttcan cctaattgct 660
 gaaaggaccg ggccgntttt gntttccctt gncccaaagg naaanaaacg ggtgccantt 720
 cccangggat tanttcccgaa aaatttggnn aattttntt tagnaactttt tgggtttttt 780
 cc 782

<210> 758

```
<220>  
<221> misc_feature  
<222> (1)...(644)  
<223> n=A,T,C or G
```



```
<210> 761
<211> 647
<212> DNA
<213> Homo sapiens
```

<400> 761						
ctttgtggcg	gtggtgtctc	atttgggtgg	actttttggg	tcgtaggaac	ctggtatnga	60
ggcgggtact	ctctgggata	atcgggtataa	gtgttgtaaa	attgggggta	agagaaagtt	120
tcattataag	aagtggaagc	acgagccggg	gtgtttagtc	gttaatatata	agaccggttt	180
ttgttgactt	tatatagctt	ggcgtgtggg	agccaataag	aaacatttgcg	tttcgaggcc	240
ggatgcgggg	aacctctctc	ggggtctaga	gcgcgcgcatc	tgcaaaataa	ggactactga	300
cgccgctcat	aacgtactca	acaatgagtc	ggcctgcatt	aagatttctcg	cgaagaaccg	360
tactgcgtct	actgatagta	tattgcattg	atagcggcat	gagctttatc	acgtgtcgtt	420
ttcgggttgt	aagaaggag	ttaagtcgat	cttcgaggaa	gaagagaccc	caaataaaaa	480
atgactcaaa	aaaacctaga	agaaacacga	cgaagggaaa	agaacggtta	aaactagtag	540
ctcttcggan	gagtagctctt	agtagggtaa	gtcctccgtg	cgtactgtcc	taaggitttg	600
ataqcqcqgt	tgaatagacg	gtcacgcgtc	agaaggtataa	aanccgg		647

```
<220>  
<221> misc_feature  
<222> (1)...(628)  
<223> n=A,T,C or G
```

<400> 762						
cattgtgttg	gggtcactga	gcccaactttt	ttccagattt	tttgtaaaat	tgtttcgcat	60
tgtgttccct	ttattcgctt	gtattaatat	ttgcgtagtg	gattaacaa	atacttggtg	120
ttgactgtca	gtcttagagg	actgactaga	agtagttttc	atttggggct	caggaaatac	180
ctactttata	tttctagcta	attaggaag	tcatttttca	gttaggttgg	tgtttttggt	240
caggcactcg	ctagctagat	gacctaacat	gctacttaat	ttctgtagtg	ttgtgtccat	300
ccctgtagga	ttgtttcqqq	gttaaatgaa	tgtctgtata	tttgtaaagc	attttacctca	360

<210>	766
<211>	175
<212>	DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(175)

<223> n=A,T,C or G

<400> 766

```
cattgtgttg ggcctagtcc gaatactttt agtaacttca gacagatctc ctcactctctt 60
tctggggcctt ggnnttttctc ctttgtanaa tgatgccttt ctgtgggtttt gtcattttcta 120
acattctgtg ngtgatgagg tgtatatctg anganctcta tcnccanagt actct 175
```

<210> 767

<211> 602

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(602)

<223> n=A,T,C or G

<400> 767

```
nnnttttaaaa nctgtntctcc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
cctggtttgtt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
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<210> 768

<211> 671

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(671)

<223> n=A,T,C or G

<400> 768

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ttggggccag gaaaagcagc tggagttatt cacttagtac cttttttaca tactaaactt 180
gcctttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaaac aggttttagg 300
taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaanatt ttctgcctat 360
tatgcagact gggcggtctt aaanntggta aaactatnaa ataccatac aatattttta 420
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ccgatgagta	ggtaacagta	ttttactgat	aggtaatcta	aagaaggagg	ctaaataaat	180	
tgcccaattt	cgaacagtga	gaggaagaat	taggattgaa	acacatatag	tggcttcaga	240	
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```

aatgagtttc ttccccttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780
aatttgtttt gattccnngc aaaaaaagtt tnttnttgga tgtagggggc tcnnaaagnc 840
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<210> 771
<211> 156
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=A,T,C or G

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ngtttttttg aanaattcat tgggtattta ttattc 156

```

```

<210> 772
<211> 586
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(586)
<223> n=A,T,C or G

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<400> 772
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tccagatatg aaacttaccc ccagctatgg tcttctatct gttatttaat ttctaggcca 180
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gcttattgag caggtattgt aggctaaaca attctanact ttaaggggac acagnttgca 420
aaacaaaatc ctgccttgna tggatactta tgnnatggng ggatacagac aatcaacata 480
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ccanccaan anggattggg aagtggangg ganggtcang ggangg 586

```

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<210> 773
<211> 2983
<212> DNA
<213> Homo sapiens

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catgggagtt ccaaacgagc agtcctgtgt tccggcgagg acaggtgttt cacctgcggc 180
tggtgctgaa ccagccccta caatcctacc accaactgaa actggaattc agcacagggc 240
cgaatcctag catcgccaaa cacaccctgg tggtgctcga cccgaggacg ccctcagacc 300

```

```

actacaactg gcaggcaacc cttcaaaatg agtctggcaa agaggtcaca gtggctgtca 360
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tccttaagtc tgaagaaaac atcctatacc ttctcttcaa cccatggtgt aaagaggaca 480
tggttttcat gcctgatgag gacgagcgca aagagtacat cctcaatgac acgggctgcc 540
attacgtggg ggctgccaga agtatcaaat gcaaaccttg gaactttggt cagtttgaga 600
aaaatgtcct ggactgctgc atttccctgc tgactgagag ctccctcaag cccacagata 660
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<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

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```

```

ggcattgcag gagagaatct gaagggatga tggatgcac aaaagagctg caagttctcc 180
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<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400> 775

<400> 775
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Ser Pro Val Phe Arg Arg Gly Gln Val Phe His Leu Arg Leu Val Leu
35 40 45

Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
50 55 60

Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
65 70 75 80

Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
85 90 95

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
100 105 110

Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
130 135 140

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
145 150 155 160

Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
165 170 175

Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
180 185 190

Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
195 200 205

Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
210 215 220

Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly
225 230 235 240

Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr
245 250 255

Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala
260 265 270

REPORT OF THE

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 Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg Gln Val Met Asp His
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 Ala Phe Leu Leu Leu Ser Ser Glu Arg Glu His Arg Gln Pro Val Lys
 450 455 460
 Glu Asn Phe Leu His Met Ser Val Gln Ser Asp Asp Val Leu Leu Gly
 465 470 475 480
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<213> Homo sapiens
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Phe 1010	Ala	Tyr	Phe	Tyr	Met	Val 1015	Val	Lys	Lys	Cys	Phe 1020	Lys	Cys	Cys	Cys
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Ser

<210> 810

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Val	Asn	Phe	Ile	Gln	Ala	Asn	Phe	Lys	Lys	Arg	Glu	Cys	Val	Phe	Phe	
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Thr	Lys	Asp	Ser	Lys	Ala	Thr	Glu	Asn	Val	Cys	Lys	Cys	Gly	Tyr	Ala	
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Gln	Ser	Gln	His	Met	Glu	Gly	Thr	Gln	Ile	Asn	Gln	Ser	Glu	Lys	Trp	
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Asn	Tyr	Lys	Lys	His	Thr	Lys	Glu	Phe	Pro	Thr	Asp	Ala	Phe	Gly	Asp	
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Cys	Asp	Thr	Asp	Ala	Glu	Ile	Leu	Tyr	Glu	Leu	Leu	Thr	Gln	His	Trp	
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Asn	Phe	Ala	Leu	Lys	Pro	Arg	Met	Arg	Lys	Ile	Phe	Ser	Arg	Leu	Ile	
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	210					215					220					
Gly	Tyr	Phe	Leu	Ala	Gln	Tyr	Leu	Met	Asp	Asp	Phe	Thr	Arg	Asp	Pro	
	225				230					235					240	

Leu	Tyr	Ile	Leu	Asp	Asn	Asn	His	Thr	His	Leu	Leu	Leu	Val	Asp	Asn	
				245					250					255		
Gly	Cys	His	Gly	His	Pro	Thr	Val	Glu	Ala	Lys	Leu	Arg	Asn	Gln	Leu	
				260					265					270		
Glu	Lys	Tyr	Ile	Ser	Glu	Arg	Thr	Ile	Gln	Asp	Ser	Asn	Tyr	Gly	Gly	
				275					280					285		
Lys	Ile	Pro	Ile	Val	Cys	Phe	Ala	Gln	Gly	Gly	Gly	Lys	Glu	Thr	Leu	
				290					295					300		
Lys	Ala	Ile	Asn	Thr	Ser	Ile	Lys	Asn	Lys	Ile	Pro	Cys	Val	Val	Val	
				305					310					315		
Glu	Gly	Ser	Gly	Gln	Ile	Ala	Asp	Val	Ile	Ala	Ser	Leu	Val	Glu	Val	
				325					330					335		
Glu	Asp	Ala	Leu	Thr	Ser	Ser	Ala	Val	Lys	Glu	Lys	Leu	Val	Arg	Phe	
				340					345					350		
Leu	Pro	Arg	Thr	Val	Ser	Arg	Leu	Pro	Glu	Glu	Glu	Thr	Glu	Ser	Trp	
				355					360					365		
Ile	Lys	Trp	Leu	Lys	Glu	Ile	Leu	Glu	Cys	Ser	His	Leu	Leu	Thr	Val	
				370					375					380		
Ile	Lys	Met	Glu	Glu	Ala	Gly	Asp	Glu	Ile	Val	Ser	Asn	Ala	Ile	Ser	
				385					390					395		
Tyr	Ala	Leu	Tyr	Lys	Ala	Phe	Ser	Thr	Ser	Glu	Gln	Asp	Lys	Asp	Asn	
				405					410					415		
Trp	Asn	Gly	Gln	Leu	Lys	Leu	Leu	Leu	Glu	Trp	Asn	Gln	Leu	Asp	Leu	
				420					425					430		
Ala	Asn	Asp	Glu	Ile	Phe	Thr	Asn	Asp	Arg	Arg	Trp	Glu	Ser	Ala	Asp	
				435					440					445		
Leu	Gln	Glu	Val	Met	Phe	Thr	Ala	Leu	Ile	Lys	Asp	Arg	Pro	Lys	Phe	
				450					455					460		
Val	Arg	Leu	Phe	Leu	Glu	Asn	Gly	Leu	Asn	Leu	Arg	Lys	Phe	Leu	Thr	
				465					470					475		
His	Asp	Val	Leu	Thr	Glu	Leu	Phe	Ser	Asn	His	Phe	Ser	Thr	Leu	Val	
				485					490					495		
Tyr	Arg	Asn	Leu	Gln	Ile	Ala	Lys	Asn	Ser	Tyr	Asn	Asp	Ala	Leu	Leu	
				500					505					510		
Thr	Phe	Val	Trp	Lys	Leu	Val	Ala	Asn	Phe	Arg	Arg	Gly	Phe	Arg	Lys	
				515					520					525		

[illegible]

<400>	819
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe	
1	5 10 15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser	
	20 25 30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly	
	35 40 45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val	
	50 55 60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val	
65	70 75 80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala	
	85 90 95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp	
	100 105 110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu	
	115 120 125
Gly Pro Pro Ala	
130	

<210> 820
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 820
 ggggaattca tgatccggga gaaatttgcc cactgc 36

<210> 821
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 821
 gggctcgagt caggagtttg agaccagcct ggc 33

<210> 822
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 822
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
 gagaaaatttg ccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
 agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
 ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
 gccgtgccc tcaactgaaac agcaaaacag agatgggggtt tcaccatgtt ggccaggctg 660
 gtctcaaact cctga 675

<210> 823
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 823
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 accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
 gagccgtatg ttttgctgca aaataaagag agcctathtt acaagatggt gcaacaactg 180

Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys

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<210> 827
<211> 96
<212> PRT
<213> Homo sapiens

<400> 827
```

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
85 90 95

<400> 830
gcatggacca tatgtcaqcc attgagaggg tqtcaqag 38

<210> 831
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 831
 ccgctcgaga ataaggaaaa tgaagacaat ccag 34

<210> 832
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 832
 gttgaattca tgcacggggc ccaggtg 27

<210> 833
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 833
 cccctcgagt cactatgggtc tgcctcttga 30

<210> 834
 <211> 915
 <212> DNA
 <213> Homo sapiens

<400> 834
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgcttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtctggc 360
 ggacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt catgcacggg 420
 cccaggtgc tggcacgctg ctccgagtg gcttgcctg ccttggctgc cacctctgcg 480
 ggggtgcgtc tggagggggt ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
 ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
 aaagcagatg gcccttggcc ctacctttt gttagaagaa ctgatgttcc atgtcctgca 660
 gcgagtgagg ttggtggctg tgccccagc tcctggcgcg ccctcgcaga ggtgactggt 720

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tgctctttgg gccctcttgg ccttgcccag catgcacaag cctcagtgtg actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaaggt gtatgtgtgc 840
tttgggggct ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag 915

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<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
              5              10              15

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Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
              20              25              30

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Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35              40              45

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Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50              55              60

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Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65              70              75              80

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Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85              90              95

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```

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100              105              110

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```

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115              120              125

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```

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
              130              135              140

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Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
              145              150              155              160

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Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
              165              170              175

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Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
              180              185              190

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Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
              195              200              205

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Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
              210              215              220

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Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly

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<210> 836
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 836
cgaagtcacg tggaggccag cctc

24

<210> 837
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 837
cctgaccgaa ttcattaact ggcctggac

29

<210> 838
<211> 166
<212> PRT
<213> Homo sapiens

<220>
<221> VARIANT
<222> (1)...(166)
<223> Xaa = Any Amino Acid

<400> 838
Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg
1          5          10          15
His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile

```

20 25 30
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser
 35 40 45
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly
 50 55 60
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val
 65 70 75 80
 Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro
 85 90 95
 Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Xaa Gln Xaa
 100 105 110
 Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr
 115 120 125
 Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly
 130 135 140
 Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile Glu
 145 150 155 160
 Lys Thr Val Gln Ala Ser
 165

<210> 839
 <211> 504
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(504)
 <223> n = A,T,C or G

<400> 839
 atgggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac 60
 aacagaccct tgctcgctaa cgacctcatg ctcatcaagt tggacgaatc cgtgtccgag 120
 tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc 180
 ctcgtttctg gctgggggtct gctggcgaaac ggcagaatgc ctaccgtgct gcagtgcgtg 240
 aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgacccgct gtaccacccc 300
 agcatgttct gcgccggcgg agggcaanac cagaangact cctgcaacgg tgactctggg 360
 gggcccctga tctgcaacgg gtacttgacg ggccttgtgt ctttcggaaa agccccgtgt 420
 ggccaagtgt gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag 480
 aaaaccgtcc aggccagtta atga 504

<210> 840
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 840
 ctcagggttc cggagccgcg g

<210> 841

<400> 841
ctatagaatt cattacaaa aagctgggct ccagc

35

[illegible]

```
<210> 843
<211> 729
<212> DNA
<213> Homo sapiens
```

[illegible]

<220>
<223> PCR primer

```
<210> 845
<211> 33
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 845
catcgagaat tcactactct ctgactagat gtc 33

```
<210> 846
<211> 161
<212> PRT
<213> Homo sapiens
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<400> 846
Met Gln His His His His His His Ala Gly Val Arg Asp Gln Gly Gln
1 5 10 15
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
20 25 30
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Ser Gly
35 40 45
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys

```

      50              55              60
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
65              70              75              80
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val
      85              90              95
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln
      100             105             110
Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro
      115             120             125
Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His
      130             135             140
Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg
145             150             155             160
Glu

```

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<210> 847
<211> 489
<212> DNA
<213> Homo sapiens

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<400> 847
atgcagcatc accaccatca ccacgctgga gtgagggatc aggggcaggg cgcgagatgg      60
cctcacacag ggaagagagg gccctcctg cagggcctca cctgggccac aggaggacac      120
tgcttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc      180
tggetcaggt gtccagaggc tgctgctggc ttccctttgg gatcagactg cagggagggg      240
gggcggcagg gttgtggggg gagtgcacgat gaggatgacc tgggggtggc tccaggcctt      300
gccctgcct ggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc      360
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc      420
agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga      480
gagtagtga                                     489

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<210> 848
<211> 132
<212> PRT
<213> Homo sapiens

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<400> 848
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1              5              10              15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
      20              25              30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
      35              40              45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
      50              55              60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65              70              75              80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
      85              90              95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
      100             105             110

```

Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 115 120 125
 Gly Pro Pro Ala
 130

<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 gggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggtcagagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtctggc 360
 ggcacgcgta cagggaaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgccgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgccg ccggcccttc atctgggcac tgccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctacgagggc tgcctgtgcc ggatcccagg 660
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
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 ctctttggcc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960
 gaggaggcag cgctggggccc caccgagcca gcagaagggc tgcgggcccc ctcttgtcgc 1020
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 cggctgcacc agctgtgctg ccgatgcc cgcacctgc gccggtctt cgtggtgag 1140

CCGCATCACC ATCACCATCA CACGGCCGCG TCCGATAACT TCCAGCTGTC CCAGGGGTGGG 60

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<210> 852
<211> 400
<212> PRT
<213> Homo sapiens
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<400>	852															
Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu	
				5					10					15		
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala	
			20					25					30			
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala	
		35					40					45				
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val	
	50					55					60					
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr	
	65				70					75					80	
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr	
				85					90						95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser	
			100					105					110			
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr	
		115					120					125				
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Ile	Thr	Tyr	Val	Pro	Pro	Leu	
	130					135					140					
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Ile	Gly	Pro	Val	Leu	Gly	Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	
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Ser	Asp	His	Trp	Arg	Gly	Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	
			180					185					190			
Ala	Leu	Ser	Leu	Gly	Ile	Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	
		195					200					205				
Gly	Trp	Leu	Ala	Gly	Leu	Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	
	210					215					220					
Ala	Leu	Leu	Ile	Leu	Gly	Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	
					230					235					240	

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
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 Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
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 275 280 285
 Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
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 Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
 305 310 315 320
 Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335
 Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 340 345 350
 Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
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<210> 855
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<212> PRT
<213> Homo sapiens
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<213> Homo sapiens
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<400> 856
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<212> PRT
<213> Homo sapiens
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<210> 865

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<400> 877
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<210> 878
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 taacaagaaa gcagtttggg cttctcagtt tcttttttgc tgtactgcat gcaatttata 600
 gtctgtctta cccaatgagg cgatcctaca gatacaagtt gctaaactgg gcatatcaac 660
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<210> 879
 <211> 339
 <212> PRT
 <213> Homo sapiens

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Lys Pro Arg Arg Asn Leu Glu Glu Asp Asp Tyr Leu His Lys Asp Thr
 20 25 30

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35						40						45			
Thr	Ala	His	Ala	Asp	Glu	Phe	Asp	Cys	Pro	Ser	Glu	Leu	Gln	His	Thr
50						55				60					
Gln	Glu	Leu	Phe	Pro	Gln	Trp	His	Leu	Pro	Ile	Lys	Ile	Ala	Ala	Ile
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Pro	Leu	Ala	Thr	Ser	His	Gln	Gln	Tyr	Phe	Tyr	Lys	Ile	Pro	Ile	Leu
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Val	Ile	Asn	Lys	Val	Leu	Pro	Met	Val	Ser	Ile	Thr	Leu	Leu	Ala	Leu
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Val	Tyr	Leu	Pro	Gly	Val	Ile	Ala	Ala	Ile	Val	Gln	Leu	His	Asn	Gly
130						135				140					
Thr	Lys	Tyr	Lys	Lys	Phe	Pro	His	Trp	Leu	Asp	Lys	Trp	Met	Leu	Thr
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Val	Gly	Leu	Ala	Ile	Leu	Ala	Leu	Leu	Ala	Val	Thr	Ser	Ile	Pro	Ser
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Leu	Gly	Ile	Val	Ser	Leu	Leu	Leu	Gly	Thr	Ile	His	Ala	Leu	Ile	Phe
		260						265				270			
Ala	Trp	Asn	Lys	Trp	Ile	Asp	Ile	Lys	Gln	Phe	Val	Trp	Tyr	Thr	Pro
		275				280						285			
Pro	Thr	Phe	Met	Ile	Ala	Val	Phe	Leu	Pro	Ile	Val	Val	Leu	Ile	Phe
290						295				300					
Lys	Ser	Ile	Leu	Phe	Leu	Pro	Cys	Leu	Arg	Lys	Lys	Ile	Leu	Lys	Ile
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Ser Gln Leu

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 <213> Homo sapiens

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<210> 881
 <211> 2455

<212> DNA
<213> Homo sapiens

<400> 881

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<210> 882
<211> 2455
<212> DNA
<213> Homo sapiens

<400> 882

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<210> 883

<211> 62

<212> PRT

<213> Homo sapiens

<400> 883

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His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
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Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Glu
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<210> 884
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 884
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
 20 25 30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
 35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
 50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
 65 70 75 80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
 85 90 95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
 100 105 110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
 115 120 125

Leu Leu Asn Tyr Gln Val Ser
 130 135

<210> 885
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 885
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
 5 10 15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
 20 25 30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45

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Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
 50 55 60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 886

<211> 60

<212> PRT

<213> Homo sapiens

<400> 886

Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 887

<211> 76

<212> PRT

<213> Homo sapiens

<400> 887

Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 888

<211> 76

<212> PRT

<213> Homo sapiens

<400> 888

Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp

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<210> 889
<211> 80
<212> PRT
<213> Homo sapiens
```

```
<210> 890
<211> 72
<212> PRT
<213> Homo sapiens
```

```

<400> 890
Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
          5                      10                      15

Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
      20                      25                      30

Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
      35                      40                      45

Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
      50                      55                      60

```

```
<210> 891
<211> 77
<212> PRT
<213> Homo sapiens
```

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
20 25 30

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
50 55 60

```
<210> 892
<211> 60
<212> PRT
<213> Homo sapiens
```

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
50 55 60

```
<210> 893
<211> 76
<212> PRT
<213> Homo sapiens
```

<400> 893
Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15

Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30

Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 894
 <211> 2479
 <212> DNA
 <213> Homo sapiens

<400> 894
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 ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat ggataccaac 120
 cggaaaaccc ctatcccgca cageccactg tggccccac tgtctacgag gtgcatccgg 180
 ctcagtacta cccgtccccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240
 accccgtcgt ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300
 agaaagcact gtgcatcacc ttgacctgg ggaccttct cgtgggagct gcgctggccg 360
 ctggcctact ctggaagtgc atgggcagca agtgtccaa ctctgggata gagtgcgact 420
 cctcaggtac ctgcatcaac cctctaaact ggtgtgatgg cgtgtcacac tgccccggcg 480
 gggaggacga gaatcgggtg gtctgcctct acggaccaa cttcatcctt cagatgtact 540
 catctcagag gaagtcctgg caccctgtgt gccaaagacga ctggaacgag aactacgggc 600
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 atgacagcgg atccaccagc tttatgaaac tgaacacaag tgccggcaat gtcgatatct 720
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 cgctcccggg ggcttgccc tggcaggtca gctgcacgt ccagaacgtc cacgtgtgcg 900
 gaggtccat catcaccccc gagtggatcg tgacagccgc cactgcgtg gaaaaacctc 960
 ttaacaatcc atggcattgg acggcatttg cggggatttt gagacaatct ttcatgttct 1020
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 agaacaatga cattgcgctg atgaagctgc agaagcctct gactttcaac gacctagtga 1140
 aaccagtgtg tctgcccac ccaggcatga tgctgcagcc agaacagctc tgctggattt 1200
 ccgggtgggg ggccaccgag gagaaagga agacctcaga agtgcgtaac gctgccaagg 1260
 tgctttctcat tgagacacag agatgcaaca gcagatatgt ctatgacaac ctgatcacac 1320
 cagecatgat ctgtgccggc ttctgtcagg ggaacgtcga ttcttgccag ggtgacagtg 1380
 gagggcctct ggtcacttcg aacaacaata tctggtggct gataggggat acaagctggg 1440
 gttctggctg tgccaaagct tacagaccag gagtgtacgg gaatgtgatg gtattcacgg 1500
 actggattta tcgacaaatg aaggcaaacg gctaattcac atggctcttcg tccttgacgt 1560
 cgtttttaca gaaaacaatg gggctggttt tgcttccccg tgcatgattt actcttagag 1620
 atgattcaga ggtcacttca tttttattaa acagtgaact tgtctggctt tggcactctc 1680
 tgccatactg tgcaggctgc agtggctccc ctgccagcc tgcctccctt aacccttgt 1740
 ccgcaagggg tgatggccgg ctggttgtgg gcaactggcg tcaattgtgg aaggaagagg 1800
 gttggaggct gccccattg agatcttctt gctgagtcct ttccaggggc caattttgga 1860
 tgagcatgga gctgtcactt ctcagctgct ggatgacttg agatgaaaaa ggagagacat 1920
 ggaaagggag acagccaggt ggcacctgca gcggctgccc tctggggcca cttggtagtg 1980
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2063073660

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<210> 895
<211> 492
<212> PRT
<213> Homo sapiens
```

<400>	895															
Met	Ala	Leu	Asn	Ser	Gly	Ser	Pro	Pro	Ala	Ile	Gly	Pro	Tyr	Tyr	Glu	
				5					10					15		
Asn	His	Gly	Tyr	Gln	Pro	Glu	Asn	Pro	Tyr	Pro	Ala	Gln	Pro	Thr	Val	
			20					25					30			
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro	
		35					40					45				
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val	
	50					55					60					
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys	
65					70					75					80	
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val	
				85					90					95		
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys	
			100					105					110			
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn	
		115					120					125				
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp	
	130					135					140					
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Pro	Asn	Phe	Ile	Leu	Gln	Met	
145					150					155					160	
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp	
			165						170					175		
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn	
			180					185					190			
Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser	
	195						200					205				

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
 210 215 220
 Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
 225 230 235 240
 Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly
 485 490

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<210> 896
 <211> 683
 <212> DNA
 <213> Homo sapiens

<400> 896
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 cggaaaaccc ctatcccgca cagcccaactg tggccccac tgtctacgag gtgcatccgg 180
 ctcagtacta cccgtccccc gtgccccagt acgccccgag ggtcctgacg caggcttcca 240
 accccgtcgt ctgcacgcag cccaaatccc catccgggac agtgtgcacc tcaaagacta 300
 agaaagcact gtgcatcacc ttgaccctgg ggaccttctt cgtgggagct gcgctggccg 360
 ctggcctact ctggaagtgc atgggcagca agtgtctcaa ctctgggata gagtgcgact 420
 cctcaggtac ctgcatcaac cctcttaact ggtgtgatgg cgtgtcacac tgccccggcg 480
 gggaggacga gaatcggtgt gttcgctctt acggacaaaa cttcatcctt cagatgtact 540
 catctcagag gaagtcctgg caccctgtgt gccaaagcga ctggaacgag aactacgggc 600
 gggcggcctg cagggacatg ggctataaga ataattttta ctctagccaa ggaatagtgg 660
 atgacagcgg atccaccagc ttt 683

<210> 897
 <211> 209
 <212> PRT
 <213> Homo sapiens

<400> 897
 Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
 1 5 10 15
 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
 100 105 110
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
 115 120 125
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
 130 135 140
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
 145 150 155 160
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
 165 170 175
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
 180 185 190

CCGAGGCTT-062004

```
<210> 898
<211> 27
<212> PRT
<213> Homo sapiens
```

```
<400> 898
Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1          5          10          15
Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20          25
```

```
<210> 899
<211> 35
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 899
ggatccgccg ccaccatgtc actttctagc ctgct 35

```
<210> 900
<211> 27
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 900
gtcgactcag ctggaccaca gccgcag 27

```
<210> 901
<211> 34
<212> DNA
<213> Artificial Sequence
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<220>
<223> PCR primer

<400> 901
ggatccgccg ccaccatggg ctgcaggctg ctct 34

```
<210> 902
<211> 27
<212> DNA
<213> Artificial Sequence
```

<220>
<223> PCR primer

<400> 902
gtcgactcag aaatcctttc tcttgac

27

<210> 903
<211> 936
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 903
atgggctgca ggctgntctg ctgtgcggtt ctctgtctcc tgggagcggg ccccatggaa 60
acgggagtta cgcagacacc aagacacctg gtcattggga tgacaaataa gaagtctttg 120
aaatgtgaac aacatctggg tcataacgct atgtatttgt acaagcaaag tgctaagaag 180
ccactggagc tcatgtttgt ctacagtctt gaagaacggg ttgaaaacaa cagtgtgccca 240
agtcgcttct cacctgaatg ccccaacagc tctcacttat tccttcacct acacaccctg 300
cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcggggc gggcaccagg ctacaggtca cagaggacct gaaaaacgtg 420
tccccaccgg aggtcgctgt gtttgagcca tcagaagcag agatctccca caccctaaag 480
gccacactgg tgtgcctggc cacaggcttc taccctgacc acgtggagct gagctggtgg 540
gtgaatggga aggaggtgca cagtggggtc agcacagacc cgcagcccct caaggagcag 600
ccgcctctca atgactccag ataactgctg agcagccgcc tgagggtctc ggccaccttc 660
tggcagaacc cccgcaacca ctcccgctgt caagtccagt tctacgggct ctcgagagaat 720
gacgagtgga cccaggatag ggccaaacct gtcacccaga tcgtcagcgc cgaggcctgg 780
ggtagagcag actgtggctt cactccgag tcttaccagc aaggggtcct gtctgccacc 840
atcctctatg agatcttgct aggggaaggcc acctgtatg ccgtgctggg cagtgccttc 900
gtgctgatgg ccatgggtaa gagaaaggat ttctga 936

<210> 904
<211> 834
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...()
<223> n = A,T,C or G

<400> 904
atgtcacttt ctagcctgct naaggtgggc acagcttcac tgtggctagg acctggcatt 60
gccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120
ctggactgca catatgacac cagtgatcaa agttatgggc tcttctggta caagcagccc 180
agcagtgggg aaatgatatt tcttatttat caggggtcct atgacgagca aaatgaaca 240
gaaggtcgct actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300
gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg cgcgggagga 360
ggaaacaaac tcacctttgg gacaggcact cagctaaaag tgggaactca tatccagaac 420

ctctgacctg	ccgtgtacca	gctgagagac	tctaaatcca	gtgacaagtc	tgtctgccta	480
ttcaccgatt	ttgattctca	aacaaatgtg	tcacaaagta	aggattctga	tgtgtatata	540
acagacaaaa	ctgtgctaga	catgaggtct	atggacttca	agagcaacag	tgtgtgtggc	600
tggagcaaca	aatctgactt	tgcattgtga	aacgccttca	acaacagcat	tattccagaa	660
gacacctttc	tccccagccc	agaaagttcc	tgtgatgtca	agctgggtcg	gaaaagcttt	720
gaaacagata	cgaaccttaa	ctttcaaaac	ctgtcagtga	tggggtccg	aatctctctc	780
ctgaaagtgg	ccgggtttaa	tctgctcatg	acgctcgggc	tgtgggtccag	ctga	834

```
<220>
<221> variant
<222> (1)...(311)
<223> Xaa = Any amino acid
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Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
20 25 30

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
50 55 60

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
130 135 140

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
165 170 175

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr

115 120 125
 Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
 130 135 140
 Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu
 145 150 155 160
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
 165 170 175
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
 180 185 190
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
 195 200 205
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
 210 215 220
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
 225 230 235 240
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
 245 250 255
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
 260 265 270
 Arg Leu Trp Ser Ser
 275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
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 atgtttcagc acctgatgca gaagcggagc cacacccagt ggacgtatgg accactgacc 180
 tcgactctct atgacctcac agagatcgac tcctcagggg atgagcagtc cctgctggaa 240
 cttatcatca ccaccaagaa gcgggaggct cgccagatcc tggaccagac gccggtgaag 300
 gagctggtga gcctcaagtg gaagcggtag gggcgccgt acttctgcat gctgggtgcc 360
 atatatctgc tgtacatcat ctgcttcacc atgtgctgca tctaccgcc cctcaagccc 420
 aggaccaata accgcacgag ccccggggac aacaccctct tacagcagaa gctacttcag 480
 gaagcctaca tgacccctaa ggacgatatc cggtggtcg gggagctggg gactgtcatt 540
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 ttctttggac agaccatcct tgggggcccc ttccatgtcc tcatcatcac ctatgccttc 660
 atggtgctgg tgacctggg gatgcggctc atcagtcca gcggggagg ggtaccatg 720
 tcctttgcac tcgtgctggg ctggtgcaac gtcattgtact tcgcccagg attccagatg 780
 ctaggcccct tcaccatcat gattcagaag atgatttttg gcgacctgat gcgattctgc 840
 tggctgatgg ctgtggtcat cctgggcttt gcttcagcct tctatatcat cttccagaca 900

gaggacccccg aggagctagg ccacttctac gactacccca tggccctgtt cagcaccttc 960
gagctgttcc ttaccatcat cgatggccca gccaaactaca acgtggacct gcccttcattg 1020
tacagcatca cctatgctgc ctttgccatc atcgccacac tgctcatgct caacctcctc 1080
attgccatga tgggcgacac tcaactggcg gtggcccatg agcgggatga gctgtggagg 1140
gcccagattg tggccaccac ggtgatgctg gagcgggaagc tgctcgtctg cctgtggcct 1200
cgctccggga tctgcggaag ggagtatggc ctgggagacc gctggttcct gcgggtggaa 1260
gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacacccgg 1320
ggctctgagg atttggaaca agactcagt gaaaaactag agctgggctg tcccttcagc 1380
ccccacctgt cccttcctat gccctcagt tctcgaagta cctccgcag cagtgccaat 1440
tgggaaaggc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
ctggaggacg gggagagctg ggaatatcag atctga 1536

<210> 908

<211> 1533

<212> DNA

<213> Homo sapiens

<400> 908

atgtacaacc tgttgctgtc ctacgacaga catggggacc acctgcagcc cctggacctc 60
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<211> 511

<212> PRT

<213> Homo sapiens

<400> 909

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Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
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<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

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Ala Ile Ile Ile Leu Leu Val
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<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

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Met Val Leu Val Thr Met Val
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106250" 1656660

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              20              25              30

Ala  Asn  Tyr  Asn  Val  Asp  Leu  Pro  Phe  Met  Tyr  Ser  Ile  Thr  Tyr  Ala
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Ala  Phe  Ala  Ile  Ile  Ala  Thr  Leu  Leu  Met  Leu  Asn  Leu  Leu  Ile  Ala
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<212> DNA
<213> Homo sapiens
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<210> 917
<211> 2061
<212> DNA
<213> Homo sapiens

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<210> 918
<211> 957
<212> DNA
<213> Homo sapiens

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<210> 919
<211> 954
<212> DNA
<213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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<210> 921

<213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

Ala Cys Leu Leu Gln
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<213> Homo sapiens

Thr Leu Pro Arg
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<213> Homo sapiens

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 tgttgtaatg gtgaaaacgt cttccttctt tattgcccct tcttatttat gtgaacaact 3120
 gtttgtcttt ttttgtatct tttttaaact gtaaagttca attgtgaaaa tgaatatcat 3180
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<210> 930

<211> 1479

<212> DNA
<213> Homo sapiens

<400> 930

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ccggctcagt actaccgctc ccccggtgcc cagtacgccc cgaggggtcct gacgcaggct 180
tccaaccccg tcgtctgcac gcagcccaaa tccccatccg ggacagtgtg cacctcaaag 240
actaagaaaag cactgtgcat caccttgacc ctggggacct tcctcgtggg agctgcgctg 300
gccgctggcc tactctggaa gttcatgggc agcaagtgtc ccaactctgg gatagagtgc 360
gactcctcag gtacctgcat caaccctct aactggtgtg atggcgtgtc aactgcccc 420
ggcggggagg acgagaatcg gtgtgttcgc ctctacggat caaacttcat ccttcagggtg 480
tactcatctc agaggagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
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atctataaaa aactgtacca cagtgtatgcc tgttcttcaa aagcagtggg ttctttacgc 720
tgtatagcct gcgggggtcaa cttgaactca agccgccaga gcaggattgt gggcggcgag 780
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<210> 931
<211> 1476
<212> DNA
<213> Homo sapiens

<400> 931

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gactcctcag gtacctgcat caaccctct aactggtgtg atggcgtgtc aactgcccc 420
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tactcatctc agaggagtc ctggcaccct gtgtgccaag acgactggaa cgagaactac 540
gggcggggcg cctgcaggga catgggctat aagaataatt tttactctag ccaaggaata 600
gtggatgaca gcggatccac cagctttatg aaactgaaca caagtgcgg caatgtcgat 660
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<210> 932
<211> 492
<212> PRT
<213> Homo sapiens
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			20					25					30			
Val	Pro	Thr	Val	Tyr	Glu	Val	His	Pro	Ala	Gln	Tyr	Tyr	Pro	Ser	Pro	
			35				40					45				
Val	Pro	Gln	Tyr	Ala	Pro	Arg	Val	Leu	Thr	Gln	Ala	Ser	Asn	Pro	Val	
			50			55					60					
Val	Cys	Thr	Gln	Pro	Lys	Ser	Pro	Ser	Gly	Thr	Val	Cys	Thr	Ser	Lys	
					70					75					80	
Thr	Lys	Lys	Ala	Leu	Cys	Ile	Thr	Leu	Thr	Leu	Gly	Thr	Phe	Leu	Val	
				85					90					95		
Gly	Ala	Ala	Leu	Ala	Ala	Gly	Leu	Leu	Trp	Lys	Phe	Met	Gly	Ser	Lys	
			100					105					110			
Cys	Ser	Asn	Ser	Gly	Ile	Glu	Cys	Asp	Ser	Ser	Gly	Thr	Cys	Ile	Asn	
			115				120					125				
Pro	Ser	Asn	Trp	Cys	Asp	Gly	Val	Ser	His	Cys	Pro	Gly	Gly	Glu	Asp	
			130			135					140					
Glu	Asn	Arg	Cys	Val	Arg	Leu	Tyr	Gly	Ser	Asn	Phe	Ile	Leu	Gln	Val	
					150					155				160		
Tyr	Ser	Ser	Gln	Arg	Lys	Ser	Trp	His	Pro	Val	Cys	Gln	Asp	Asp	Trp	
				165					170					175		
Asn	Glu	Asn	Tyr	Gly	Arg	Ala	Ala	Cys	Arg	Asp	Met	Gly	Tyr	Lys	Asn	
			180					185					190			
Asn	Phe	Tyr	Ser	Ser	Gln	Gly	Ile	Val	Asp	Asp	Ser	Gly	Ser	Thr	Ser	
			195				200					205				
Phe	Met	Lys	Leu	Asn	Thr	Ser	Ala	Gly	Asn	Val	Asp	Ile	Tyr	Lys	Lys	
			210			215					220					
Leu	Tyr	His	Ser	Asp	Ala	Cys	Ser	Ser	Lys	Ala	Val	Val	Ser	Leu	Arg	
					230					235					240	
Cys	Ile	Ala	Cys	Gly	Val	Asn	Leu	Asn	Ser	Ser	Arg	Gln	Ser	Arg	Ile	
				245					250					255		
Val	Gly	Gly	Glu	Ser	Ala	Leu	Pro	Gly	Ala	Trp	Pro	Trp	Gln	Val	Ser	
			260					265					270			
Leu	His	Val	Gln	Asn	Val	His	Val	Cys	Gly	Gly	Ser	Ile	Ile	Thr	Pro	
			275			280						285				
Glu	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Lys	Pro	Leu	Asn	Asn	
						295					300					

Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
 485 490

<210> 933
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 933
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 Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
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 Gly Ala Ala Leu
 100

<210> 934
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 934

[illegible]

<210>	935
<211>	22
<212>	DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 935

gtgctgtggg agtccccgcg gc

22

<210> 936

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 936

cgtgaactcg agtcattaga ttaacctcgt ggacgc

36

<210> 937

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 937

gtgctgtggg agtccccgcg gc

22

<210> 938

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 938

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gcccggccgg tgaagctcgc tgctttccct acctccttaa gtgactgcca aacgcccacc 180
ggctggaatt gctctgggta tgatgacaga gaaaatgatc tcttcctctg tgacaccaac 240
acctgtaaat ttgatgggga atgtttaaga attggagaca ctgtgacttg cgtctgtcag 300
ttcaagtgca acaatgacta tgtgcctgtg tgtggctcca atggggagag ctaccagaat 360
gagtgttacc tgcgacaggc tgcatgcaaa cagcagagtg agatacttgt ggtgtcagaa 420
ggatcatgtg ccacagatgc aggatcagga tctggagatg gagtccatga aggctctgga 480
gaaactagtc aaaaggagac atccacctgt gatatttgcc agtttggtgc agaatgtgac 540
gaagatgccg aggatgtctg gtgtgtgtgt aatattgact gttctcaaac caacttcaat 600
ccccctctgc cttctgatgg gaaatcttat gataatgcat gccaaatcaa agaagcatcg 660
tgtcagaaac aggagaaaat tgaagtcatt tctttgggtc gatgtcaaga taacacaact 720
acaactacta agtctgaaga tgggcattat gcaagaacag attatgcaga gaatgctaac 780
aaattagaag aaagtgccag agaacaccac ataccttgtc cggaacatta caatggcttc 840
tgcatgcatg ggaagtgtga gcattctatc aatatgcagg agccatcttg cagggtgtgat 900

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gctggttata ctggacaaca ctgtgaaaaa aaggactaca gtgttctata cgttgttccc 960
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gtcatctgtg tgggtggcct ctgcatcaca aggaaatgcc ccagaagcaa cagaattcac 1080
agacagaagc aaaatacagg gcactacagt tcagacaata caacaagagc gtccacgagg 1140
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<210> 939

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 939

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gaatgtttta gaattggaga cactgtgact tgcgtctgtc agttcaagtg caacaatgac 180
tatgtgcctg tgtgtggctc caatggggag agctaccaga atgagtgtta cctgcgacag 240
gctgcatgca aacagcagag tgagatactt gtggtgtcag aaggatcatg tgccacagat 300
gcaggatcag gatctggaga tggagtccat gaaggctctg gagaaactag tcaaaaggag 360
acatccacct gtgatatttg ccagtttggt gcagaatgtg acgaagatgc cgaggatgtc 420
tgggtgtgtg gtaatattga ctgttctcaa accaacttca atccccctctg cgcttctgat 480
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attgaagtca tgtctttggg tcgatgtcaa gataacacaa ctacaactac taagtctgaa 600
gatgggcatt atgcaagaac agattatgca gagaatgcta acaaattaga agaaagtgcc 660
agagaacacc acataccttg tccggaacat tacaatggct tctgcatgca tgggaagtgt 720
gagcattcta tcaatatgca ggagccatct tgcaggtgtg atgctgggta tactggacaa 780
cactgtgaaa aaaaggacta cagtgttcta tacgttggtc ccggtcctgt acgatttcag 840
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ctctgcatca caaggaaatg cccagaagc aacagaattc acagacagaa gcaaaatata 960
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<210> 940

<211> 336

<212> PRT

<213> Homo sapiens

<400> 940

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                20              25              30
Thr Asn Thr Cys Lys Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr
                35              40              45
Val Thr Cys Val Cys Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val
                50              55              60
Cys Gly Ser Asn Gly Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln
                65              70              75              80
Ala Ala Cys Lys Gln Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser
                85              90              95
Cys Ala Thr Asp Ala Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly
                100              105              110
Ser Gly Glu Thr Ser Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln
                115              120              125
Phe Gly Ala Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys
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<210> 941
<211> 381
<212> PRT
<213> Homo sapiens
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<400>	941															
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			20					25						30		
Pro	Val	Met	Leu	Leu	Ile	Val	Ala	Arg	Pro	Val	Lys	Leu	Ala	Ala	Ala	Phe
		35					40					45				
Pro	Thr	Ser	Leu	Ser	Asp	Cys	Gln	Thr	Pro	Thr	Gly	Trp	Asn	Cys	Ser	
	50					55					60					
Gly	Tyr	Asp	Asp	Arg	Glu	Asn	Asp	Leu	Phe	Leu	Cys	Asp	Thr	Asn	Thr	
65					70					75					80	
Cys	Lys	Phe	Asp	Gly	Glu	Cys	Leu	Arg	Ile	Gly	Asp	Thr	Val	Thr	Cys	
				85					90						95	
Val	Cys	Gln	Phe	Lys	Cys	Asn	Asn	Asp	Tyr	Val	Pro	Val	Cys	Gly	Ser	
			100					105					110			
Asn	Gly	Glu	Ser	Tyr	Gln	Asn	Glu	Cys	Tyr	Leu	Arg	Gln	Ala	Ala	Cys	
		115					120					125				
Lys	Gln	Gln	Ser	Glu	Ile	Leu	Val	Val	Ser	Glu	Gly	Ser	Cys	Ala	Thr	
	130					135					140					
Asp	Ala	Gly	Ser	Gly	Ser	Gly	Asp	Gly	Val	His	Glu	Gly	Ser	Gly	Glu	
145					150					155					160	
Thr	Ser	Gln	Lys	Glu	Thr	Ser	Thr	Cys	Asp	Ile	Cys	Gln	Phe	Gly	Ala	
				165					170					175		

Glu Cys Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp
 180 185 190
 Cys Ser Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser
 195 200 205
 Tyr Asp Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu
 210 215 220
 Lys Ile Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr
 225 230 235 240
 Thr Thr Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu
 245 250 255
 Asn Ala Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys
 260 265 270
 Pro Glu His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser
 275 280 285
 Ile Asn Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly
 290 295 300
 Gln His Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly
 305 310 315 320
 Pro Val Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile
 325 330 335
 Gln Ile Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys
 340 345 350
 Pro Arg Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr
 355 360 365
 Ser Ser Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
 370 375 380

<210> 942
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 942
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<210> 943
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 943
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val Asn
 5 10 15

<210> 944
 <211> 1883
 <212> DNA
 <213> Homo sapiens

<400> 944
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 caaaatatga aggccttata tttcttctga gggacgcagc tccagtctaa cttgccactc 120

T00290: P00290

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acagctaacg	ttgaattttg	ccttgatgtg	ttcaaagagc	tgaacagtaa	caacatagga	240
gataacatct	tcttttcttc	gctgagtcctg	ctttatgctc	taagcatggg	cctccttggt	300
gccaggggag	agactgcaga	gcaattggag	aagggtgcttc	atttttagtca	tactgtagac	360
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ccagtgcac	gatcaagtca	atgagtaaaa	ttttaaggga	ttagattttc	ttgacttgta	1620
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gggcttcaac	tttgcttgga	tttttaataa	ttttccttgc	atatgtaaat	agaatgtggg	1740
gagttttagt	tcaaaattct	ctgttgagaa	taataaatgc	atgaaatacc	ttaaagctct	1800
gtgaagactt	gtaacatggc	agcaatcaaa	tggcttataa	aaggataact	tgaatgtgga	1860
taaattgaaa	aaaaaaaaaa	aaa				1883

<210> 945

<211> 2471

<212> DNA

<213> Homo sapiens

<400> 945

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tcttcgctga	gtctgcttta	tgctctaagc	atggctctcc	ttggtgccag	gggagagact	180
gcagagcaat	tgggaagggt	gcttcatttt	agtcatactg	tagactcatt	aaaaccaggg	240
ttcaaggact	cacctaagtg	cagccaagct	ggaagaattc	attccgagtt	tggtgtctaa	300
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gggacaaaaga	cgatggcatt	tcatcagcaa	tatttaagct	gttctgagaa	atgggtatcaa	420
gccaggttgc	aaactgtgga	ttttgaacag	tctacagaag	aaacgaggaa	aacgattaat	480
gcttggttgc	aaaataaaaac	taatggaaaa	gtcgcaaatc	tctttggaaa	gagcacaatt	540
gacccttcat	ctgtaatggg	cctgggtgaat	gccatatatt	tcaaaggaca	atggcaaaat	600
aaattttcaag	taagagagac	agttaaaagt	ccttttcagc	taagtggagt	aagtatttta	660
ttttcagact	catgacaaat	gttgagggat	acaataatca	tttaaggaca	atttagaaaag	720
atgtagtgat	ttagtgaaaa	tattgggtcta	ggtttctgtt	ggttcttttt	attgtatttt	780
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tgagacttg	ggataactaag	attctctggc	agaggagaaa	acccattctt	ttcttaacgc	900
tctctcggt	tattctttcc	atatatactg	tggttatgtt	ctccagcagc	acactaaggc	960
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Lys Thr Met Ala Phe His Gln Gln Tyr Leu Ser Cys Ser Glu Lys Trp

115					120					125					
Tyr	Gln	Ala	Arg	Leu	Gln	Thr	Val	Asp	Phe	Glu	Gln	Ser	Thr	Glu	Glu
130					135					140					
Thr	Arg	Lys	Met	Ile	Asn	Ala	Trp	Val	Glu	Asn	Lys	Thr	Asn	Gly	Lys
145					150					155					160
Val	Ala	Asn	Leu	Phe	Gly	Lys	Ser	Thr	Ile	Asp	Pro	Ser	Ser	Val	Met
				165					170					175	
Val	Leu	Val	Asn	Thr	Ile	Tyr	Phe	Lys	Gly	Gln	Arg	Gln	Asn	Lys	Phe
			180					185					190		
Gln	Gly	Lys	Asn	Val	Thr	Val	Glu	Met	Met	Tyr	Gln	Ile	Gly	Thr	Phe
		195					200					205			
Lys	Leu	Ala	Phe	Val	Lys	Glu	Pro	Gln	Met	Gln	Val	Leu	Glu	Leu	Pro
		210					215					220			
Tyr	Val	Asn	Asn	Lys	Leu	Ser	Met	Ile	Ile	Leu	Leu	Pro	Val	Gly	Ile
225							230					235			240
Ala	Asn	Leu	Lys	Gln	Ile	Glu	Lys	Gln	Leu	Asn	Ser	Gly	Thr	Phe	His
				245					250					255	
Glu	Trp	Thr	Ser	Ser	Ser	Asn	Met	Met	Glu	Arg	Glu	Val	Glu	Val	His
			260					265					270		
Leu	Pro	Arg	Phe	Lys	Leu	Glu	Ile	Lys	Tyr	Glu	Leu	Asn	Ser	Leu	Leu
			275					280					285		
Lys	Pro	Leu	Gly	Val	Thr	Asp	Leu	Phe	Asn	Gln	Val	Lys	Ala	Asp	Leu
			290				295					300			
Ser	Gly	Met	Ser	Pro	Thr	Lys	Gly	Leu	Tyr	Leu	Ser	Lys	Ala	Ile	His
305							310					315			320
Lys	Ser	Tyr	Leu	Asp	Val	Ser	Glu	Glu	Gly	Thr	Glu	Ala	Ala	Ala	Ala
				325					330					335	
Thr	Gly	Asp	Ser	Ile	Ala	Val	Lys	Ser	Leu	Pro	Met	Arg	Ala	Gln	Phe
				340					345					350	
Lys	Ala	Asn	His	Pro	Phe	Leu	Phe	Phe	Ile	Arg	His	Thr	His	Thr	Asn
			355				360					365			
Thr	Ile	Leu	Phe	Cys	Gly	Lys	Leu	Ala	Ser	Pro					
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<210> 947

<211> 617

<212> PRT

<223> Xaa = Any amino acid

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[illegible]

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Leu	Gly	Ile 275	Leu	Arg	Phe	Ser	Gly 280	Arg	Gly	Glu	Asn	Pro 285	Phe	Phe	Ser	
Xaa	Arg 290	Ser	Leu	Gly	Leu	Phe 295	Phe	Pro	Tyr	Ile	Leu 300	Trp	Leu	Cys	Ser	
Pro 305	Ala	Ala	His	Xaa	Gly 310	Tyr	Leu	Cys	Tyr	Phe 315	Phe	Phe	Xaa	Arg	Val 320	
Ser	Xaa	Gly	Lys 325	Ile	Lys	Lys	Lys	Met	Ile 330	Xaa	Xaa	Tyr	Ile	Leu 335	Phe	
Leu	Pro	Thr	Lys 340	Ile	Met	Leu	Ala	Lys 345	Asn	Pro	Asp	Phe	Val 350	Phe	Gly	
Arg	Pro 355	Ser	Tyr	Leu	Tyr	Ile	Leu 360	Leu	Glu	Gln	Phe	Ser 365	Leu	Xaa	Pro	
Xaa 370	Leu	Ile	Leu	Asn	Xaa	Lys 375	Asn	Gly	Xaa	Pro	Leu 380	Gln	Arg	Glu	Val	
Ile 385	Arg	Asn	Leu	Leu	Cys 390	Ser	Phe	Tyr	Phe	Thr 395	His	Ala	Phe	Arg	Val 400	
Phe	Met	Gln	Ile 405	Ser	Val	Leu	Arg	Lys	Val 410	Ile	Ser	Thr	His	Thr 415	Cys	
Ala	Leu	Thr	Tyr 420	Val	Ser	Ile	Leu	Xaa 425	Ser	Phe	Ser	Ser	Xaa 430	Gln	Gly	
Lys	Asn	Val 435	Thr	Val	Glu	Met	Met 440	Tyr	Gln	Ile	Gly	Thr 445	Phe	Lys	Leu	
Ala 450	Phe	Val	Lys	Glu	Pro	Gln 455	Met	Gln	Val	Leu	Glu 460	Leu	Pro	Tyr	Val	
Asn 465	Asn	Lys	Leu	Ser	Met 470	Ile	Ile	Leu	Leu	Pro 475	Val	Gly	Ile	Ala	Asn 480	
Leu	Lys	Gln	Ile 485	Glu	Lys	Gln	Leu	Asn	Ser 490	Gly	Thr	Phe	His	Glu 495	Trp	
Thr	Ser	Ser	Ser 500	Asn	Met	Met	Glu	Arg 505	Glu	Val	Glu	Val	His 510	Leu	Pro	
Arg	Phe 515	Lys	Leu	Glu	Thr	Lys	Tyr 520	Glu	Leu	Asn	Ser 525	Leu	Leu	Lys	Ser	
Leu	Gly	Val	Thr	Asp	Leu	Phe	Asn	Gln	Val	Lys	Ala	Asp	Leu	Ser	Gly	

[illegible]

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atcctgcggg	acggcgcgca	gcggcaaggc	ggccgcacga	gcagccagag	acagcgcgac	180	
ccggagccgg	agccagagcc	agagccagag	ggaggacgca	gccgcgcgg	ggcgcagaac	240	
gaccagctga	gcaccgggcc	ccgcgcgcgc	ccgagggagg	ccgagacgct	ggcagtagacc	300	
gagccagaaa	ggcacttg	gtcttatctg	ttggactctg	aaaacacttc	aggcgccctt	360	
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<210> 950
<211> 18
<212> PRT
<213> Homo sapiens
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$\langle 210 \rangle$	956
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[illegible]

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[illegible]

<211> 373

<213> Homo sapiens

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Ile Leu Leu Arg Arg Gly Gly Val Arg Ala Ser Thr Glu Asn Leu Ile
20 25 30

Thr Leu Phe Gln Thr Ile Glu Gln Phe Cys Pro Trp Phe Pro Glu Gln
35 40 45

Gly Thr Leu Asp Leu Lys Asp Trp Glu Lys Ile Gly Lys Glu Leu Lys
50 55 60

Gln Ala Asn Arg Glu Gly Lys Ile Ile Pro Leu Thr Val Trp Asn Asp
65 70 75 80

Trp Ala Ile Ile Lys Ala Thr Leu Glu Pro Phe Gln Thr Gly Glu Asp
85 90 95

Ile Val Ser Val Ser Asp Ala Pro Lys Ser Cys Val Thr Asp Cys Glu
100 105 110

Glu Glu Ala Gly Thr Glu Ser Gln Gln Gly Thr Glu Ser Ser His Cys
115 120 125

Lys Tyr Val Ala Glu Ser Val Met Ala Gln Ser Thr Gln Asn Val Asp
130 135 140

Tyr Ser Gln Leu Gln Glu Ile Ile Tyr Pro Glu Ser Ser Lys Leu Gly

145 150 155 160
 Glu Gly Gly Pro Glu Ser Leu Gly Pro Ser Glu Pro Lys Pro Arg Ser
 165 170 175
 Pro Ser Thr Pro Pro Pro Val Val Gln Met Pro Val Thr Leu Gln Pro
 180 185 190
 Gln Thr Gln Val Arg Gln Ala Gln Thr Pro Arg Glu Asn Gln Val Glu
 195 200 205
 Arg Asp Arg Val Ser Ile Pro Ala Met Pro Thr Gln Ile Gln Tyr Pro
 210 215 220
 Gln Tyr Gln Pro Val Glu Asn Lys Thr Gln Pro Leu Val Val Tyr Gln
 225 230 235 240
 Tyr Arg Leu Pro Thr Glu Leu Gln Tyr Arg Pro Pro Ser Glu Val Gln
 245 250 255
 Tyr Arg Pro Gln Ala Val Cys Pro Val Pro Asn Ser Thr Ala Pro Tyr
 260 265 270
 Gln Gln Pro Thr Ala Met Ala Ser Asn Ser Pro Ala Thr Gln Asp Ala
 275 280 285
 Ala Leu Tyr Pro Gln Pro Pro Thr Val Arg Leu Asn Pro Thr Ala Ser
 290 295 300
 Arg Ser Gly Gln Gly Gly Ala Leu His Ala Val Ile Asp Glu Ala Arg
 305 310 315 320
 Lys Gln Gly Asp Leu Glu Ala Trp Arg Phe Leu Val Ile Leu Gln Leu
 325 330 335
 Val Gln Ala Gly Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu
 340 345 350
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 355 360 365
 Gly Val Lys Gln Tyr
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<210> 969

<211> 50

<212> DNA

<213> Homo sapiens

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31

45

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30

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<213> Homo sapiens

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<213> Homo sapiens

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<211> 10

<212> PRT

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<212> PRT

<213> Homo sapiens

<400> 981

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[illegible]

